CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 18, 1911.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File.....245
List of Contracts Pending.....245
Railways.....235
Electric Railways.....235
Light and Power Plants.....235
Bridges.....236
Buildings.....236
Water Supply and Irrigation.....238
Sewerage.....239
Garbage Disposal.....239
Streets and Roads.....239
Manufacturing Plants.....240
Miscellaneous Contracts.....241
U. S. Possessions and Cuba.....244
Contract Prices.....242
EXAMINATIONS.....244
INDUSTRIAL NOTES.....244
TRADE PUBLICATIONS.....244
PROPOSALS.....265

RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

MARYLAND.—Baltimore.—A belt line connecting all the city docks and the railways to be built by the city is under consideration.

VIRGINIA.—Washington & Old Dominion Ry.—Application for a charter has been made for a road to extend from a point in Alexandria County opposite Washington to Winchester, about 60 miles. The officers are: Charles M. Henckley, Pres.; W. B. Emmett, Vice-Pres.; George Howard, Treas., and Charles E. Howe, Secy., all of Washington, D. C.

GEORGIA.—Barnesville, R. R.—It is proposed to build a 6-mile line from Barnesville to Piedmont, on the Southern Ry., running from Atlanta to Fort Valley. T. W. Cochran, A. Peacock and W. H. Mitchell, Barnesville, Ga., are interested.

OHIO.—Cincinnati, Hamilton & Dayton Ry.—Press reports state the company has changed its plans regarding the double tracking the line running between North Baltimore and Toledo for the coal traffic, that is to be diverted by the Baltimore & Ohio R. R., from Sandusky to Toledo and instead the main line from Deshler to Toledo, 45 miles, will be double tracked. A. C. Everham, Toledo, Ohio, is Res. Engr. Noted April 6.

✚IOWA.—Chicago, Rock Island & Pacific Ry.—The contracts for the 90-mile cut-off through Iowa have been awarded, according to press reports, to WICKHAM BROS., Council Bluffs, Iowa, and MACARTHUR BROS., 11 Pine St., New York, N. Y. Noted May 4.

MISSOURI.—Shelbyville & Northwestern R. R.—An extension of the Shelby County R. R.—Construction work will soon begin on a 15-mile road from Shelbyville to the north line of Shelby County. Louis B. Houck, Shelbina, Mo., is Pres.

ARKANSAS.—Wilson Northern Ry.—The company has under consideration the following extensions: from Keiser northeasterly to connect with the Jonesboro, Lake City & Eastern Ry., at Ross, about 8½ miles; from Wilson, 30 miles through Mississippi and Crittenden Counties to Bridge Junction in Crittenden County. H. H. Brown, Bardstown, Ark., is Ch. Engr.

TEXAS.—St. Louis, Brownsville & Mexico R. R.—Press reports state that this road will be extended up the valley of the Rio Grande from Sam Fordyce to Roma, about 45 miles, during the present year, and later the line will be continued along the border to Laredo. E. C. Burgess, Kingsville, Tex., is Ch. Engr.

OKLAHOMA.—Clinton & Oklahoma Western Ry.—Surveys have been made for a road from Butler to Woodward and Shattuck and also for a line through Cheyenne to Canadian, Texas. T. J. Nance, Clinton, Okla., is Pres.

✚UTAH.—Oregon Short Line (Harriman Lines).—Contracts have been awarded, according to press reports, to the UTAH CONSTRUCTION CO., Ogden, Utah, for grading 112 miles of branch lines.

CANADA.—Canadian Northern Ry.—The Government proposes to guarantee the Canadian Northern's bonds to the extent of 3½% on $35,000 a mile for the 1,000 miles between Montreal and Port Arthur, which will link the company's Eastern and Western systems. From Montreal to St. John, N. B., it is proposed to operate the Canadian Northern over the Intercolonial, a Government-owned railroad. The last road will be strengthened by the construction of new branches and the acquisition of several existing side lines for which the sum of $17,000,000 has been placed in the supplementary estimates. The estimates also contain an item of $2,000,000 to be started in the northern line to Hudson Bay.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

BROOKLYN, N. Y.—The Nassau Electric R. R. Co. has been granted permission to construct its proposed extension between Liberty and Georgia Aves. extending along Georgia Ave. to Atlantic Ave. and connecting with the existing track of the Brooklyn, Queens County & Suburban R. R. in Georgia Ave. J. F. Calderwood, 75 Clinton St., is Gen. Mgr.

CLYMER, PA.—The Indiana County St. Ry. Co. is securing the right of way for an extension from Clymer to Dixonville. An extension of four miles from Dixonville to Marion Centre is being considered. C. C. McGee, Indiana, is Ch. Engr.

NORTH IRWIN (Irwin post office), PA.—The Westmoreland Street Ry. Co. proposes to extend its line terminating at the foot of Pennsylvania Ave. to North Irwin, passing through Main St., Fourth St. and Oak St. A franchise has been applied for.

✚VILLANOVA, PA.—The Philadelphia & Western Ry. Co., H. S. Farquahar, Ch. Engr., Upper Darby, has awarded to the KEYSTONE STATE CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, Pa., the contract for grading and masonry work for its double track extension between Villanova and the Schuylkill River. The PENNSYLVANIA STEEL CO. has the contract for building the bridge over the Schuylkill River, which with its viaduct approaches on each side will be 3,800 ft. long.

WILKES-BARRE, PA.—The charter of the Northumberland County Traction Co., which authorizes this corporation to build railways in Northumberland, Snyder, Montour, Columbia, Lycoming, Schuylkill and Luzerne Counties, has been filed. The purpose of the company is to connect Wilkes-Barre and Williamsport with a network of trolley lines. The lines now in operation will be purchased and new lines built. The main offices are at 1417 Pennsylvania Bldg., Philadelphia. Robert McConnell, Philadelphia, is interested.

SEWICKLEY, PA.—The Pittsburg Rys. Co. has been granted a right of way across the new Sewickley Bridge, now being constructed over the Ohio River.

SOMERSET, PA.—The Somerset Ry. Co. is making surveys for an electric railway between Somerset and Rockwood, about eleven miles. Contracts will be awarded about June 15. J. A. Berkey, of Somerset, is Pres.

DALTON, GA.—A project is on foot to build an interurban railway connecting Chattanooga, Spring Place, Chattworth and Dalton. Frank T. Reynolds, former Secy. of Chamber of Commerce of Chattanooga, and Thomas Hudson are interested.

KISSIMMEE, FLA.—Surveys have been completed and a line will probably be started about Sept. 1 by the Citrus Southern Ry. Co. This city will be connected with Sanford. J. J. Brophy is Mgr.

✚HAGERSTOWN, MD.—The contract has been awarded by the Hagerstown & Clear Spring Ry. Co. to the BURTON CONSTRUCTION CO., Richmond, Va., for the construction of a railway from Hagerstown to Clear Spring, about twelve miles. Cost about $270,000. Noted Jan. 26.

DONALDSONVILLE, LA.—The Lafourche Valley & Gulf Ry. has been granted a franchise to build a railway connecting Donaldsonville and Leesville. F. M. Welch, Donaldsonville, is Pres.

NEW ORLEANS, LA.—The New Orleans Ry. & Light Co. has applied for a franchise to build a double-track line on Claiborne St., from Napoleon Ave. to a point in the upper part of the city. Hugh McClosky is Pres.

GARY, IND.—The Calumet United Rys. Co. has been granted a franchise to operate a street railway in this city for a period of 50 years. C. H. Geist, Philadelphia, Pa., is interested.

SOUTH BEND, IND.—The Chicago, South Bend & Northern Indiana Ry. Co. contemplates double-tracking all its important lines and making desired extensions. Charles E. Emmons, South Bend, is Gen. Mgr.

CANTON, ILL.—The Illinois Central Electric Ry. Co. is planning to build an extension six miles long, extending in a northerly direction and probably eight miles in a southerly direction.

EAST ST. LOUIS, ILL.—The East St. Louis & St. Louis Traction Co. has been organized and proposes to construct a line in East St. Louis to connect with the new municipal bridge being built by the city of St. Louis.

WAUKEGAN, ILL.—A group of Chicago men have obtained a charter for the Chicago, Waukegan & Woodstock Traction Co. to build a road between Waukegan, Lake County, and Woodstock, McHenry County. It is proposed to connect with the Chicago & Northwestern and the Chicago, Milwaukee & St. Paul. Peter B. Olsen, I. D. Stevens, W. P. MacCracken, H. S. Hedberg and Charles A. Spenny, Secy. of the Woodstock Traction Co., are the backers. No surveys have been made and no right of way secured.

MILWAUKEE, WIS.—The Milwaukee Electric Ry. & Light Co. have made application for a franchise to extend its line on Seventh St. from State St. to Claybourn St. John I. Beggs, Milwaukee, is Gen. Mgr.

ALBERT LEA, MINN.—Articles of incorporation have been filed by the Sioux Falls & Southern Minnesota Traction Co. A line from Sioux Falls to Albert Lea, going by way of Worthington, Sheppard, Spring Valley, Dresden, Loon Lake, Petersburg, Dwinnell, Ceylon, Silver Lake, East Clair and Pilot Grove, all in Minnesota, is proposed. The offices are at Pierre. L. B. Wyckoff, Syracuse, N. Y.; J. J. Davenport, H. W. Knight, Charles S. Sollers, of Chicago; G. P. Peterson, of Pierre, N. Dak., are the incorporators.

ANOKA, MINN.—The Minneapolis Northern Suburban Ry. Co. proposes to build a line connecting Anoka, Onaway, Fridley and Minneapolis. Subscriptions of $30,000 have been made. W. J. Whitcomb is Pres., H. L. Patthey is Vice-Pres., W. H. Lawrence is Treas. A. W. Stevens, H. C. Gage, L. H. Kuderling and P. E. Woodward, Pres. of the Anoka Commercial Club, are interested.

ABERDEEN, S. DAK.—The Aberdeen Ry. Co. will build an extension.

HARRISBURG, ARK.—L. D. Freeman and J. D. Gant are preparing plans to build an electric railway from Marked Tree to Harrisburg and Newport, Ark., about 50 miles.

DENTON, TEX.—An interurban railway is projected to connect Denton and Dallas by Alvin P. Owsley, of this city, and others. Free right of way is being granted and a part of the stock has been subscribed. A committee composed of J. T. Ogden, A. W. Risien and J. B. McWhorter have been appointed to confer with citizens of Denton, Lewisville, Corinth, Garza, Trinity Mills, Farmers Branch and Letot and all other points of interest along this route.

TYLER, TEX.—The City Council has granted a franchise for the construction of a street railway to Thomas O'Hara and R. E. Hoskot, Dayton, Ohio.

✚SEATTLE, WASH.—The contract for building a railway from Seattle to Lake Burien, about seven miles, has been awarded to HOMER CROSBY, 423 Hinckley Bldg., Seattle. F. E. Sander, of Seattle, is interested.

WENATCHEE, WASH.—Walter M. Barvey and Louis W. Pratt, capitalists, will make application for a franchise to build a railway in this city.

MARSHFIELD, ORE.—Jacob M. Blake and associate are promoting a street car line to be operated in this city. Storage battery cars will probably be used.

CHICO, CAL.—Bids will be received until June 6 by the city for a franchise to lay and maintain a double-track railway on Main St. for a period of 50 years, desired by the Northern Electric Ry. Co. The successful bidder for the franchise will have the right to construct necessary tournouts for depot purposes only on land owned by the company.

LOS ANGELES, CAL.—The Pacific Electric R. R. Co. will call for bids soon for the grading for a double-track and the laying of a single-track line between Glendale and Burbank. The track to branch from the Glendale Los Angeles electric road near Arden Ave. and Brand Boulevard. The new road will be four and one half miles long. The estimated cost is $200,000.

SACRAMENTO, CAL.—Articles of incorporation have been filed by the Sacramento-Folsom Electric Ry. Co. The company proposes to build a line between Sacramento and Folsom about 22 miles, also a branch line of four miles out from Fair Oaks bridge. Subscriptions of $26,000 have been made. The incorporators are F. V. Keesling, E. L. Brune, J. W. Cook and Otto Grau, all of San Francisco, and Herman Grau, Sacramento.

SANTA BARBARA, CAL.—The Santa Barbara Consolidated has applied to the City Council for a franchise to rebuild and extend some of its lines in Santa Barbara.

✚NIAGARA FALLS, ONT.—The contract to build an extension of the Niagara Falls, Welland & Lake Erie Ry. through Welland has been awarded to HENDRICK H. LEACH & CO. The line will connect Niagara Falls, Welland and Port Colborne, with branches to Port Dover on Lake Erie, and to Ft. Erie on the Niagara River, opposite Buffalo. C. J. McLaughlin, Toronto, Ont., is interested.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

HARTFORD, CONN.—The Hartford City Gas Light Co. will construct a steel gas containing vessel 150 ft. in diameter and 150 ft. high on Arch St.

AMSTERDAM, N. Y.—Bids will be received by Thomas J. Hazlett, City Clk., until June 6, for lighting streets and public places.

BUFFALO, N. Y.—See item under Manufacturing Plants.

NEW YORK, N. Y.—The bids opened on May 9 for furnishing pedestal lampposts on Jay St., from South St.; retaining walls, railing and tablets on Stuyvesant Pl.; retaining wall and curb lampposts on Jay St., South St., Hyatt St., Stuyvesant Pl., Central Ave., Arietta St., and Griffin St., being part of the street improvements authorized for the St. George Ferry approach, Contract No. 6, were as follows: Vulcan Rail & Construction Co., 172 North Ninth St., Brooklyn, $24,057; Charles Meades & Co., $33,904; J. L. Mott Iron Works, $34,410; McNarg Barten Co., $25,700.

Bids will be received by C. B. J. Snyder, Supt. School Bldgs., Park Ave. and 59th St., until May 22, for installing electric equipment in School No. 40.

UTICA, N. Y.—Bids will be received until May 23 by Stuart F. Day, Secy. Bd. of Contract and Supply, for about 150,000 duct ft. of tile and appurtenances for an extension of the electric subways here.

✚ROCHESTER, N. Y.—The contract for installing electricity for power and lighting purposes in Buildings Nos. 2, 3 and 4, also the boiler house at Exposition Park, has been awarded by the Bd. of Contract and Supply to the ROCHESTER ELECTRIC MOTOR CO., at $12,575.

DEPEW, N. Y.—Bids will be received by the Bd. of Education of Depew Union Schools, Depew, N. Y., until June 6 for installing a heating and ventilating system. An appropriation of $6,980 will be made. S. Jay Opart is Clk. of the Board.

ROCHESTER, N. Y.—Preparations are being made by the Rochester Ry. & Light Co. for the installation of a system of Mazda incandescent lights from Genesee St. through Elmwood Ave. past Mt. Hope Cemetery and the state buildings in South Ave. through Highland Park to South Goodman St. The lamps will be placed on poles 240 ft. apart.

ROCKVILLE CENTRE, L. I., N. Y.—An appropriation of $17,000 will be made for the erection of a power house. Two 800 HP. boilers will be installed.

ALBANY, N. Y.—Bids received by the State Lunacy Comn., May 10, for additional electric equipment were as follows: One direct connected engine, dynamo, changes in switchboard, etc., for North Colony Power House at the Central Islip State Hospital, Central Islip, N. Y.: Commercial Construction Co., New York, $6,461; Ridgeway Dynamo and Engine Co., New York, $7,031; Anderson Martin Electric Co., New York, $7,300; Frost & Sheldon, Albany, N. Y., $7,373; A. D. Granger, New York, $8,913; Lord Electric Co., New York, $10,463.

✚FORT TOTTEN, N. Y.—The contract has been awarded to the NEWPORT CONTRACTING & ENGINEERING CO., of Newport News, Va., at $11,525, for heating Barracks Nos. 107, 108 and 110 at Fort Totten. An allowance of $90 from this price was made for the use of certain old equipment.

✚NEWARK, N. J.—The contract has been awarded to BURCROFF & SHUMAN, Newark, for the construction of a boiler house for the New York State Custodial Asylum to cost $18,000. Noted April 20.

STEELTON, PA.—The Steelton Light, Heat & Power Co. is planning to build an auxiliary power plant and substation. Samuel Cauffer, Steelton, is Pres.

JOHNSTOWN, PA.—An application will be made to Gov. Tener on June 1 for a charter for the Croyle Township Light, Heat & Power Co. The incorporators are J. Wilbur Stineman, O. M. Stineman and A. M. Stineman. John M. Rose is solicitor for the proposed new corporation.

BALTIMORE, MD.—Bids will be received at the office of James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 8, for the alterations in heating at the United States appraisers' stores, Baltimore, Md. Specification may be had at the above office or the office of the custodian of the building.

WASHINGTON, D. C.—Bids will be received by R. C. Hollyday, Chief of the Bureau of Yards and Docks, Navy Department, until May 27, for air, steam, water and electric meters to be installed in navy yards and naval stations. Specification No. 1792. The estimated cost is $51,000.

RICHMOND, VA.—Bids were received as follows on May 10 by the Supervising Arch., Treasury Dept., Washington, for installing heating plant in the Richmond, Va., post office: John W. Danforth Co., Buffalo, $23,422; Frank Dobson Co., New York, $24,886; Newport Contracting & Engineering Co., Newport News, Va., $23,495; West End Heating & Engineering Co., Philadelphia, $26,300; S. Faith & Co., Philadelphia, $23,027; W. G. Morris, Phoebus, Va., $32,000; Hoben & Doyle, Philadelphia, $23,000; York Engineering Co., Inc., York, Pa., $24,500; Standard Engineering Co., Washington, D. C., $21,400; Louis F. Andrae Co., Baltimore, Md., $21,806; W. P. Longworth, Richmond, Va., $24,391; Thompson Bros., Philadelphia, $25,980; The Peck Hammond Co., Cincinnati, $35,237; Thomas E. Gildea, Syracuse, N. Y., $24,337; Camden Heating Co., Camden, N. J., $21,363; Fitzpatrick & Hoepfner, Columbus, Ohio, $25,978.

✚WHEELING, W. VA.—Bids for the erection of a new building at the city gas works and the installation of a water gas plant have been opened. The contract was awarded to RUSHON & LEHMAN, at $10,166.

✚DALTON, GA.—The city has awarded the contract for construction of a new pole and wire line for the new electric light plant to be located north of the city, to TERRELL, HEDGES CO., Chattanooga, Tenn.

JACKSONVILLE, FLA.—All bids opened May 4 by Bd. Trustees Water Wks. and Improvement Bonds for building superstructure, including brick work, roofing, mill work, plumbing, heating, etc., for the municipal power station near Jacksonville, have been rejected, bids being considered excessive, and it was agreed that no new bids should be asked for, as it was decided to take the work over and complete the station according to plans and specifications, as prepared by the Scofield Enginering Co., Philadelphia, Pa., which concern is Consulting Engineer for the proposed work.

FORT MORGAN, ALA.—Bids will be received at the office of Second Lieutenant Edwin F. Barlow, Constructing Quartermaster, Fort Morgan, Ala., until 1 p. m., June 2, for motor-driven deep-well pump, electric transmission line, switch panel, transformer, 4-in. cast-iron water main, etc. Plans and specifications may be seen at this office or obtained by deposit of $5 to insure safe return.

EUFAULA, ALA.—Bids for the erection of a municipal light plant will be received until June 7. This action was decided on by the Council, and Consult. Engr. W. L. Upton, Birmingham, has been so instructed. The plant will occupy a site near that of the water-works plants.

✚CHARLOTTE, N. C.—The contract for electrical equipment involving $300,000, has been awarded by the Piedmont Traction Co. to the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Pittsburg, Pa. This is the company building the interurban railway from Charlotte, N. C., to Greenwood, S. C.

DURHAM, N. C.—The Southern Power Co. is planning to build a steam power plant. The estimated cost is $250,000. Albert Milmo, Charlotte, is Constructing Agent.

RALEIGH, N. C.—The North State Hydro-Electric Co. has been incorporated for the purpose of building a water-power electric plant.

CINCINNATI, OHIO.—Bids will be received at the office of Edward P. Durr, Secy., Department of Public Safety, City Hall, Cincinnati, Ohio, until 12 noon, May 26, for constructing and laying gas mains to connect main buildings within the grounds of the Branch Hospital, and all interior pipe fitting required for connecting gas appliances in use within the main buildings at said institution, located near Greenley Ave. and intersection of Gurley Road, Price Hill. Plans and specifications may be seen at the office of the Director of Public Safety.

HASTINGS, MICH.—A bond issue of $120,000 has been voted by the citizens for the construction of a hydro-electric plant. James M. Patten is City Clk.

✚ESCANABA, MICH.—The contract for constructing a concrete dam and pulp mill on the Escanaba River for the Escanaba Traction Co., has been awarded to BRAGEN & RICE, Green Bay, Wis.

JIM FALLS, WIS.—Chief Engineer McCalman, Chicago, Ill., has inspected the proposed power site on the Chippewa River for Byllesby & Co. This property is now utilized by the Dells Paper & Pulp Co. If the purchase is made by the power company a power plant will be built and a transmission line to St. Paul and Minenapolis.

FORT DODGE, IOWA.—A water power plant to develop 4,000 HP. will be constructed here. A dam 740 ft. long and 41 ft. high will be built. Plans have been made by the Arnold Co., 105 South La Salle St., Chicago, Ill. Cost, $612,000. E. T. Meredith, Joseph R. Marin, G. Bosford and others of Des Moines are interested.

CHICAGO, ILL.—Bids will be received for furnishing and installing electrical apparatus and supplies as listed below by I. J. Bryan, Clk., Room 1500, American Trust Bldg., Chicago, Ill., until noon, May 25. Proposals may be made upon any or all of the following divisions: Installing equipment for Wood St. Substation: Transformers, enclosed arc lamps, arc lamp regulators, varnished cloth insulated cable, paper insulated cable, tubular iron poles, lamp brackets, oil switches, conduit, weatherproof wire.

LA CROSSE, WIS.—The La Crosse Water Power Co. proposes to construct a dam and a power-house on the Black River about seven miles north of La Crosse. The total cost will be about $500,000. W. J. Ferris, La Crosse, is Pres. and Mgr.

MADISON, WIS.—The Peninsula Power Co. has filed articles of incorporation. The company proposes to build an electric plant and harness one of the big water powers of the northern peninsula of Michigan. The incorporators are D. H. Otis and C. A. W. Tresler, of the faculty of the University of Wisconsin, and Henry J. Hunt, associated with members of the faculty. Dean F. E. Turneaure of the College of Engineering of the University also is interested.

✚SHEBOYGAN, WIS.—The contract for furnishing and installing a 1,500-HP. turbine and appurtenances for the Sheboygan Railway & Light Co. has been awarded to GENERAL ELECTRIC CO., Schenectady, N. Y., at $35,000.

CENTER POINT, IOWA.—F. J. Cross, Monticello, has been voted franchises to install and operate electric lighting and power systems in the cities of Center Point, Walker, Coggon and Central City.

KEOKUK, IOWA.—The Keokuk Ry. & Power Co. is considering the installation of one 800-HP. Cross compound Corliss engine and condenser, for 140-lb. steam pressure; one 300-KW. 133-cycle 1,100-2,200-volt, three-bearing, composite wound Westinghouse generator, with exciter and switchboard panel; one 400-KW. 550-volt railway generator with switchboard panel, for its power-house in Keokuk. A. D. Ayres, Keokuk, is Gen Mgr.

JONESBORO, ARK.—The Spring River Power Co., recently organized, will install hydro-electric plants on the Spring River, in this section. Power transmission lines will be built. The officers are: F. R. Land, Pres.; J. D. Brown, Secy., and W. H. Vaughan, Treas. The main offices are in this city.

BRYAN, TEX.—The City Council has purchased the local electric light and power plant. Improvements and extensions will be made.

FLORESVILLE, TEX.—A. B. Crawford, San Antonio, contemplates installing an electric light and power plant.

KNOX CITY, TEX.—R. W. Warren and associates will install an electric light plant, an ice plant and a steam laundry.

ROSENBERG, TEX.—The City Council is arranging for the installation of an electric light and power plant.

TEMPLE, TEX.—A franchise has been granted for gas to Henry M. Wallace and Raymond G. St. John, 706 Union Trust Bldg., Detroit, Mich., for a period of 30 years. Work will be started within 90 days.

The Temple Gas Co. is arranging to improve and enlarge the capacity of its gas plant. Col. P. L. Downs is Pres.

✚HOUSTON, TEX.—Bids were opened April 21 by Edgar O. Lovett, Pres. Wm. A. Rice Institute, 1110-12 Scanlan Bldg., for complete installation of a generating and distributing system in the power-house on Main St., and the contract has been awarded to the WALWORTH-ENGLISH-FLETT CO., Boston, Mass., for $156,950.

McALLEN, TEX.—A. L. Stang, El Campo, Tex., has been granted a franchise to build an electric light plant.

✚GUTHRIE, OKLA.—The contract for the light, heat, power and refrigerating plant at the State Penitentiary has been awarded to S. E. DUNBAR, Muskogee, Okla. The contract involves about $25,000. The building will be erected by convict labor.

KINGFISHER, OKLA.—The municipal electric lighting system will be changed from a single to three-phase.

LONGMONT, COLO.—A bond issue of $46,000 has been voted by the citizens to be used for the construction of an electric light plant.

TUCUMCARI, N. MEX.—The General Electric Co., Chicago, has acquired the local electric light plant and will make improvements and extensions of the plant and lighting system.

TWIN FALLS, IDAHO.—The City Council has passed an ordinance granting W. W. Seymour and F. C. Brewer the right to maintain and operate gas plants and lay mains and pipes for the purpose of distributing gas through the city streets.

WAITSBURG, WASH.—The City Council has passed an ordinance granting the Waitsburg Electric Light Co., the right to maintain electric light and power lines.

CASTLEROCK, WASH.—The City Council has passed an ordinance granting the Silverlake Ry. & Lumber Co. authority to construct and operate transmission lines within the town limits.

ROSEBURG, ORE.—A franchise has been granted to W. F. Boardman & Co., San Francisco, to operate its gas system in all the streets and alleys for a period of 50 years.

LOS ANGELES, CAL.—The Bd. of Supervisors will receive bids until 2 p. m., June 5, for construction of 1-story brick powerhouse at Los Angeles County Farm. Plans at the office of Board. H. J. Lelande is County Clk.

PATTON, CAL.—The Southern California State Hospital will have a gas and electric plant. An appropriation of $43,000 has been made by the Legislature for this purpose. The State Engineer is preparing plans.

SAN JOSE, CAL.—Plans and specifications for the building of a 11,000-volt high-tension line from San Jose to Alum Rock Park to be built by the United Gas & Electric Co.

SANTA ROSA, CAL.—Bids will be received by W. W. Felt, Jr., Clk. Bd. of Supervisors, until 2 p. m., June 8, for the construction of a power-house and laundry. Mechanical equipment, heating and laundry machinery according to plans and specifications on file at the office of the Clerk.

LOS ANGELES, CAL.—Bids will be received by Harry Lelande, Clk. of the Bd. of Supervisors of Los Angeles County, until June 5 for furnishing and installing a power plant, including laundry equipment, steam cooking apparatus, in plant, engine generator set, kitchen apparatus, etc., at the Los Angeles County farm.

REDWOOD CITY, CAL.—The Bd. of Supervisors of San Mateo County has awarded a franchise to J. J. Gomes and Benjamin Cunha to operate an electric light and power system in the country north of Half Moon Bay.

LOS ANGELES, CAL.—Bids will be received by the Board of Supervisors until 2 p. m., May 22, for lighting certain streets in Hawthorne Lighting District. Plans may be seen at the office of the Board of Supervisors. H. J. Lelande is County Clk.

✚SAN BERNARDINO, CAL.—The City Council has awarded a contract to the PACIFIC LIGHT & POWER CO., for street lighting at $3.73 per light per month. This new system will be equipped with new direct current magnetite lamps.

COBOURG, ONT.—Bids for steam heating of Victoria Hall in Cobourg, addressed to the County Clerk, Cobourg, will be received until noon, June 1, marked "Tenders for Heating." Plans and specifications may be seen at the office of the County Clerk, Cobourg. George Greer is Chn. of Com.

TORONTO, ONT.—Bids will be received until June 6 by G. R. Geary, Mayor, Chn. Bd. of Control, for motors and other electrical equipment, pumps, electrically driven, etc., for the main drainage works.

BRIDGES.

(*✚Denotes a contract awarded.*)

NORTH TARRYTOWN, N. Y.—The Taxpayers of North Tarrytown are considering a proposition to rebuild the Pocantico Bridge at an estimated cost of $10,000.

HACKENSACK, N. J.—Plans are being prepared by Ralph Earle, County Engr., for a bridge over the cut of the Susquehanna R. R. at Summit Ave. John Van Bussum is Dr. Bd. of Freeholders.

✚BLOOMFIELD, N. J.—The contract for constructing a concrete and steel bridge over Third River and Morris Canal at Baldwin St., Bloomfield, has been awarded to LINDE & GRIFFITH, Newark, N. J., at $12,995. The other bidders were: Schwires & Co., New York, N. Y., $16,383; Long & Co., Hackensack, $14,200; Fusco Construction Co., Newark, $20,700; Charles W. Bance, Jersey City, $16,200; R. C. McMains & Co., Caldwell, $16,453; Frederick E. Paddock, Caldwell, $23,016; F. W. Shrump & Sons, Pleasantdale, $19,915; Snare & Triest Co., New York, N. Y., $18,470; Ferro Concrete Co., Harrisburg, Pa., $17,921.

HARRISBURG, PA.—Bids will be received by the Commissioners of Dauphin County until noon, May 20, for constructing a concrete arch bridge with a 30-ft. clear span and a 33-ft. roadway. D. F. Lebo is Clk. of Comrs.

McELHATTAN, PA.—We are officially advised that bids will be received by the Commissioners of Clinton County at Lock Haven, Pa., until noon, June 1, for constructing a steel highway bridge over the west branch of the Susquehanna River, at McElhattan, according to plans and specifications prepared by the Farris Engineering Co., Civil and Bridge Engrs., Jenkins Arcade Bldg., Pittsburg, Pa. The superstructure will consist of ten duplicate plate girder spans each 97.5 ft. long with a 16-ft. roadway, and the substructure, of nine reinforced-concrete piers and two reinforced-concrete abutments.

MEADVILLE, PA.—Bids will be received by the Supervisors of Summit Township until May 25 for constructing a reinforced-concrete arch bridge across the inlet at Worden's Corners. J. L. Davenport is Clk. of Supervs.

SCRANTON, PA.—We are officially advised that bids were received on May 15 for constructing the Mulberry St. viaduct, as follows. York Bridge Co., York, Pa., $194,745, work complete, except concrete piles; $187,947, with reinforced concrete floor instead of buckled plates. Carlucci Stone Co., Scranton, Pa., $202,427, $200,427. Pennsylvania Steel Co., Steelton, Pa., $208,900, $206,400. Penn Bridge Co., Beaver Falls, Pa., $211,000, $205,000. M. H. Stebbins, Wellsboro Pa., $212,460, $207,500. W. W. Lindsay & Co., Philadelphia, Pa., $214,000, $209,700. Owego Bridge Co., Owego, N. Y., $214,000, $209,000. Fort Pitt Bridge Works, Pittsburg, Pa., $238,543, $233,752. Jobson-Gifford Co., New York, N. Y., $239,950, $239,950. William A. Schunk is Ch. Engr., Bureau of Engineering, Scranton, Pa.

PITTSBURG, PA.—The Commissioners of Allegheny County have decided to construct a bridge across Pine Creek on the Butler plank road at an estimated cost of $12,000. Samuel D. Foster is County Road Engr., and I. K. Campbell, Comr.

PITTSBURG, PA.—Bids will be received by R. J. Cunningham, County Controller, until noon, May 31, for the construction of two elliptical arch reinforced-concrete stone faced bridges, and one reinforced-concrete semi-circular arch bridge.

SOMERSET, PA.—Bids will be received by the Commissioners of Somerset County until noon, June 7, for constructing superstructures, substructures and abutments, and for furnishing all the steel required for the erection of six bridges. Edward H. Werner is Clk. of Comrs.

LYNCHBURG, VA.—The city is considering the construction of a reinforced-concrete bridge over James River, to cost from $150,000 to $200,000. H. L. Shaner is City Engr.

JACKSON, MISS.—Bids will be received by John J. Pierce, City Engr., until May 27, for erecting two reinforced-concrete arch bridges and one steel girder bridge.

✚HENDERSON, KY.—We are officially advised that a contract for constructing 14 steel bridges was awarded on May 4 to the VINCENNES BRIDGE CO., Vincennes, Ind., at $9,937. Noted on May 4.

CANTON, OHIO.—Bids will be received by the Commissioners of Stark County until 10 a. m., May 31, for constructing the Levi Shirk Bridge No. 71932-A. J. H. McConnell is County Audr.

✚CLEVELAND, OHIO.—Press reports state that contracts for constructing the Dunham Road viaduct have been awarded as follows: For excavation and cement work, to T. B. HUSBAND, Cleveland, at $47,479; for furnishing iron and steel, to the McMYLER-INTERSTATE CO., Bedford, Ohio, at $28,310. Noted on April 20.

CLEVELAND, OHIO.—Bids will be received by the Commissioners of Cuyahoga County until 11 a. m., June 3, for bridge work. John F. Goldenbogen is Clk. of Comrs.

ELYRIA, OHIO.—Bids will be received by the Board of Commissioners of Lorain County until 1 p. m., May 22, for constructing Bassett Bridge, No. 205, in Russia Township. C. H. Lawrence is County Surveyor, and Charles Chandler, Clk. of Comrs.

WAUSEON, OHIO.—Bids will be received by C. J. Ives, County Audr., until 10 a. m., May 29, for constructing Bridge No. 175, 36 ft. long, with 14-ft. roadway.

MARION, IND.—Bids will be received by the Commissioners of Grant County until 10 a. m., May 22, for constructing the concrete retaining walls of a bridge over Bach Creek, near Jonesboro. A. Y. Stout is County Audr.

✚*EAST ST. LOUIS, ILL.—We are officially advised that contracts for constructing five railroad bridges over Cahokia Creek Diversion Channel have been awarded as follows: Substructures, to the GOULD CONSTRUCTION CO., Davenport, Iowa; superstructure, to the KING BRIDGE CO., Cleveland, Ohio. The bridges to be built are as follows: Three single-track, deck-plate girder bridges with five 55-ft. spans, one single-track, deck-plate girder bridge with five 58-ft. spans, and one double-track, deck-plate girder bridge, with five 64-ft. spans. Noted on March 30.

SPRINGFIELD, ILL.—Bids will be received by the State Highway Commission until 2 p. m., May 18, for constructing a 60-ft. steel bridge in Nameoki Township.

SPRINGFIELD, ILL.—Bids will be received by the State Highway Commission, as follows, until 2 p. m., May, 26, for the construction of two bridges, one of reinforced concrete, the other reinforced concrete abutments with repairs for old steel superstructure. Floyd Finchum is Town Clk., Plainville, Ill., until 2 p. m., May 27, for the construction of the substructure for an 80-ft. bridge in Melrose Township, Adams County. Joseph Schonarth is Town Clk, Quincy, Ill.; also for a 24-ft. reinforced concrete bridge in Ustick Township, Whiteside County. Earl Hollinshead is Town Clk., Fulton, Ill., and until May 25 for eleven concrete bridges in Cass County.

FOND DU LAC, WIS.—Bids will be received by J. F. Hohensee, City Clk., until 3 p. m., May 22, for constructing a steel and concrete bridge over the west branch of de Neveu Creek off the Taycheedah Road.

SANTA FE, N. MEX.—[illegible] will be received by the Commissio[illegible] Santa Fe County until June 1, for [illegible] specifications for three bridges to [illegible]structed over Santa Fe River on the [illegible] Road. Bids for the construction of th[illegible]ges will b[illegible] received until July 1. [illegible] is Ch[illegible] and George W. Armijo, [illegible] Bd.

✚SEATTLE, WASH.—W[illegible] officially advised that the contract [illegible]structing a steel bridge over the north [illegible] the Skag[illegible] River was awarded on May [illegible] LANCE & PETERS, Walker Bldg., S[illegible] at $[illegible] Bowerman & McCloy, Centr[illegible], Seattle, are Consult. Engrs.

RICHWOOD CITY, CAL.—[illegible] will be received by Jos. H. Nash, Clk. [illegible] of Suprvs. until 10 a. m., June 5, fo[illegible]ructing a concrete arch bridge in Thir[illegible]nship over Woodruff Creek, according to plans and specifications on file with th[illegible]k.

SANTA BARBARA, CAL.—[illegible] will be received by the Board of Sup[illegible] until 10 a. m., June 6, for furnishing labor and material necessary for the co[illegible]tion of a bridge across Loma Abaja Cr[illegible] Transpor Crossing in Third Road District. [illegible] A. Hunt is County Clk.

SOMBRA, ONT.—Bids will [illegible]eived by Neil McGugan, Wilkesport, On[illegible]til noon May 20, for building concrete [illegible]ments and concrete floor for the Club Bri[illegible]ver Black Creek on the town line betw[illegible]Moore and Sombra. Plans and specifica[illegible] may be seen at the office of Bell & Mc[illegible], Engrs., St. Thomas, Ont.

ARKWRIGHT, ONT.—Bids wi[illegible] received by John H. Wiles, until noon, [illegible] 27, for the erection of two concrete ab[illegible]ents and one 100-ft. span Baltimore tr[illegible] over the Sauble River, about two miles f[illegible] Tara.

TORONTO, ONT.—Bids will be [illegible]eived by G. R. Geary, Mayor, and Secy. [illegible] of Control, Toronto, until noon, May [illegible] for the construction of a steel and concr[illegible] bridge at Turner's Baths, Hanlan's Poi[illegible] Toronto Island.

EDMONTON, ALTA.—Bids w[illegible] be received by the City Commissione[illegible] until 2 p. m., May 29, for constructing th[illegible]ers and abutments for a bridge over Sa[illegible]atchewan River. Plans and specifications are on file with A. J. Latornell, City Engr.

BUILDINGS.

(**Denotes that this work is advertised in Engineering News.*)

✚BOSTON, MASS.—The contract was awarded May 4 for erection of girls high school by School House Com., Chas. Logue, Chn., to JOHN F. GRIFFIN, at $89,122. Other bids follow, the three prices are for (a) work complete, (b) omitting iron stairs, (c) omitting certain other items: John F. Griffin, (a) $93,947, (b) $89,122, (c) $91,785; Wm. Crane (a) $98,763, (b) $94,363, (c) $96,913; McNeil Bros (a) $110,000, (b) $105,000, (c) no bid; Whiton & Haynes Co. (a) $114,000, (b) $106,500, (c) $110,500; Ira G. Hersey (a) $115,700, (b) $108,600, (c) $112,800; McGahey & O'Connor, (a) $127,692, (b) $122,699, (c) $124,772.

*FORT ANDREWS, MASS.—Bids were received by Capt. A. M. Miller, Q. M., U. S. A., 263 Summer St., Boston, Mass., on March 15, for the construction, plumbing, heating, electric wiring and fixtures of various buildings at Fort Andrews. For construction proper, the bids were: (a) storehouse and shop, (b) fire station, (c) quarters two company officers, (d) field officers' quarters, (e) two non-commissioned officers' quarters, (f) additional post hospital: The Conners Bros. Co., Lowell, Mass., (a) $39,975, (b) $4,759, (c) $16,000, (d) $11,900, (e) $12,800, (f) $17,400; William Hamilton, Des Moines, Iowa, (a) $45,083, (b) $5,285, (c) $14,970, (d) $11,553, (e) $10,492, (f) $16,878; MARR BROS. & STEWART, Boston, Mass., (a) $42,967 (awarded), (b) $4,767, (c) $15,512, (d) $12,337, (e) $11,998 (awarded), (f) $17,787 (awarded); Hapgood, Frost Co., Wellesley, Mass., (a) $42,950, (b) $4,757, (c) $17,216, (d) $13,216, (e) $12,832, (f) $17,294; Kennedy & Petersen, Boston, Mass., (a) $47,837, (b) $6,033, (c) $16,881, (d) $10,907, (e) $13,760, (f) $23,149; W. H. Fissell & Co., New York, (a) $49,407, (b) $4,830, (c) $18,790, (d) $14,498, (e) $13,804, (f) $18,371; Alban B. Carter, Boston, Mass., (a) $50,268, (b) $5,227, (c) $18,264, (d) $15,328, (e) $15,328, (f) $22,685; A. Varnerin Co., Boston, Mass., (a) $54,289, (b) $4,777, (c) $17,708, (d) $14,693, (e) $14,562, (f) $23,674; McDonald & Kivell, Boston, Mass., (b) $5,000, (e) $12,836; Amity Construction Co., New York, (e) $12,610; J. J. FITZPATRICK & SONS, Plattsburg, N. Y., (b) $4,333 (awarded), (e) $12,994.

✚WATERBURY, CONN.—The general contract for the 5-story apartment block at 317-319 North Main St., to be erected for Thomas F. Lawlor, has been awarded to GEORGE A. UPHAM, who will do the carpenter work. D. E. CRONIN has the sub contract for the mason work, and CHARLES A. JACKSON the cut stone. The building will be of brick 40 × 105 ft., arranged for 22 apartments, and will have a tapestry brick front with Indiana limestone trim. Joseph A. Jackson, New York City, is the Arch.

BUFFALO, N. Y.—Washington [illegible] French, 23 Bidwell Parkway, will erect a 3-story stone apartment building at 654-658 Elmwood Ave., to be of brick and steel construction and cost $50,000.

FAR ROCKAWAY, N. Y.—Ex-Congressman William Willett, Jr., is planning to erect an apartment hotel at Central and Roanoke Aves. It will be of brick, four stories high and equipped with modern conveniences. Estimated cost, from $60,000 to $80,[illegible]

ALBANY, N. Y.—Reports state that Governor Dix has signed the bill of Assemblyman La Reau, appropriating $65,[illegible] for the establishment of a hospital to conduct investigations into the cause, nature, treatment, prevention and cure of cancer and allied diseases. The management of the institution is to be vested in a board of trustees of seven members, including the State Commissioner [illegible] Health, Drs. Roswald Park, Charles [illegible] and William H. Gratwick, of Buffalo; [illegible] G. Milburn and Charles S. Fairchild [illegible] New York, and Frederick C. Stevens, [illegible]ica.

BROOK[illegible] N. Y.—Bids will be received by Will[illegible] H. Edwards, Comr. of Street Cleaning [illegible] May 23 for labor and material ne[illegible]y to construct a stable at East Third St. [illegible] Canal Ave., Coney Island. D. Everett [illegible] 1 Madison Ave., New York City, is [illegible]

NEW [illegible]K, N. Y.—Bids will be received until M[illegible] by C. B. J. Snyder, Supt. of School [illegible] for alterations, repairs, etc., at Publ[illegible]hools 3, 35, 41, 44, 56, 66, 70, 73, 83, [illegible] 106, 113, 125, 137, 144, Girls' High S[illegible] and Commercial High School, Borough [illegible]Brooklyn.

Bids w[illegible]e received by the Dept. of Education, [illegible] Ave. and 59th St., until May 29, for al[illegible]ons, repairs, etc., at Public Schools [illegible]14, 15, 16, 17, 17 Annex, 19, 67, 68, 71, [illegible]74, 78, 81, 86, 87, 88 and 89, Borough [illegible] Queens; for alterations, repairs, etc., at [illegible]lic School 94, 68th St. and Amsterdam [illegible]ve, Manhattan; for alterations, repairs, [illegible] at Public Schools 5, 9, 10, 43, 46, 52, [illegible]81, 93, 132, 157, 165, 166, 169, 170, 179 [illegible], 186, and Wadleigh High School, Manhatt[illegible]

NEW [illegible]RK, N. Y.—A 9-story apartment building [illegible]ll be erected by Julius Tichman at 150, 152, 156 and 162 West 80th St. The site w[illegible] recently purchased by him from W. H. [illegible]son & Co.

✚NEW YORK, N. Y.—It is reported that the contract has been awarded to the JONES CONSTRUCTION CO., 1 Union Square, New York City, for the construction of the building for the Erskine Press, which the Henschel Estate has agreed to erect.

Horace Trumbauer, Philadelphia, Pa., has been commissioned by James Speyer, 24 Pine St., to prepared plans for the construction of a dwelling on the southeast corner of Fifth Ave. and 87th St.

Plans are being prepared by L. C. Holden, 103 Park Ave., for the erection of a 4-story terra cotta, brick and stone settlement house at 34-40 Charlton St. The structure will be erected by the New York City Mission and Tract Society. The cost will be about $100,000. The Rev. A. F. Schauffler is Pres.

Plans have been prepared by H. S. Lion, 38 West 32d St., for the construction of a 6-story tenement building, to be erected at 269-271 West Twelfth St. Charles Rubinger, 220 Broadway, New York City, is the owner. The cost is $40,000.

The Martin Pletcher Construction Co., 908 Bryant Ave., will erect a 3-story brick tenement building. Henry Nordheim, 1087 Tremont Ave., is Arch. The cost is about $45,000.

Two 5-story brick tenement buildings will be erected at Daly Ave., corner of Elsmere Pl. The owner is the Rogers Bldg. Co., 1811 Amethyst St. Plans were prepared by Henry Nordheim, Tremont Ave. The cost is $110,000.

✚The general contract has been awarded to EDWARD CORNING, 100 William St., for the construction of a 12-story apartment building on the northeast corner of Park Ave. and 60th St. Plans were prepared by William Aliphron Boung, 32 Broadway.

✚James C. Colgate, 36 Wall St., has awarded the general contract to WILLIAM CRAWFORD, 5 East 42d St., for the construction of a store and loft building at Madison Ave. and 41st St., for the W. H. Johns-Manville Co., 100 William St. A. N. Allen, 4 West 45th St., prepared the plans.

According to reports arrangements have been practically completed by the Globe & Commercial Advertiser for the erection of a building on Dey St., with a frontage on Broadway. The Broadway frontage was bought a few days ago. It is known as 187 Broadway and adjoins the southwest corner of Dey St., which was purchased two months ago by an English capitalist from Robert E. Dowling for $1,400,000.

✚The general contract has been awarded to the FLEISCHMANN BROS. CO., 507 Fifth Ave., for the erection of the new theatre and office building on the corner of Sixth Ave. and 30th St. The building will cost about $250,000. The Loew Amusement Co. is the owner. Plans were prepared by S. S. Sugar, 104 West 42d St.

✚The general contract is held by the WHITNEY-STEEN CO., 1 Liberty St., for the erection of the club house for the American Jersey Cattle Club, 8 West 17th St., at 322-324 West 23d St. The cost is $60,000. Plans were prepared by Jardine, Kent & Hill, 3 West 29th St.

POUGHKEEPSIE, N. Y.—It is reported that Isaac W. Sherrill represents interests which are planning to erect a $140,000 apartment house at 26, 28 and 30 South Hamilton St.

EAST ORANGE, N. J.—According to reports, plans and specifications are being prepared for the construction of a 4-story brick apartment house at Harrison and Central Aves., East Orange, by John H. Dunn & Sons. The apartments will be known as the Beaux Arts, and the construction will be of the tudor gothic period. The estimated cost is $250,000.

EAST ORANGE, N. J.—Bids will be received by the New Jersey State Armory Com. until June 6 for the erection of an armory.

✚[illegible]EONIA, N. J.—The contract has been awarded to the W. A. L'HOMMEDIEU & Co., [illegible] Madison Ave., New York City, for the erection of the Telephone Building at Leonia, N. J., for the New York Telephone Co.

[illegible]ILADELPHIA, PA.—E. Allen Wilson, [illegible] Title Bldg., is preparing plans for ten [illegible]ily dwellings, to be built at Morris and [illegible]n Sts., for the Germantown Apartment [illegible]ruction Co. The cost will be $50,000.

[illegible]e & Stewardson, 316 Walnut St., have [illegible]leted plans for alterations to the chil[illegible] ward of the Protestant Episcopal Hos[illegible] Front and Lehigh Ave. The addition [illegible]ontain an assembly hall.

[illegible]ILADELPHIA, PA.—George E. Savage is [illegible]nning a 2-story brick and stone Sunday S[illegible]ol at Tulip and Dauphin Sts., for the Summerfield Methodist Episcopal Congregation. He is also planning alterations and a 1 and 3-story addition to the parsonage of Fairhill United Presbyterian Church, Front and Tioga Sts.

FORT DU PONT, DEL.—Lieut. E. A. Stockton, Jr., Q. M. U. S. A., will receive bids until May 29 for constructing an addition to the post hospital.

✚BALTIMORE, MD.—Maryland Casualty Co. has awarded the contract to JOHN WATERS to build a 9-story and tower addition to their building at Baltimore, North and Fayette Sts. Cost, $300,000. Otto G. Simonson is Arch.

✚BALTIMORE, MD.—Press reports state that MILTON C. DAVIS has been awarded a contract to build a 5-story warehouse at 13 West German St. for Frank H. Harrison. The drawings have been completed by Mottu & White. The building will be of brick with stone trimmings, reinforced concrete foundation and slag roof. Fireproof material, including sheet metal shutters, will be installed. Work will start soon.

MARION, VA.—The Board of Trustees, B. F. Buchanan, Ch. Bldg. Com., is having plans prepared by C. B. Kerfoot, Bristol, Va., for female college, 144 × 112 ft., to be three stories and basement, and cost about $40,000.

NORFOLK, VA.—The Belt Line R. R. Co., purchased extensive waterfront property at about $90,000 as site for terminal improvements to be undertaken in future; Main office of the company is at 26 South 15th St., Philadelphia, Pa.

RICHMOND, VA.—An apartment building will be erected by S. G. Meredith. The probable cost is $40,000.

ATHENS, W. VA.—The State Bd. of Control, Charleston, will receive bids until May 22 for erecting a 2-story school at Athens. John A. Sheppard is Chn.

TARBORO, N. C.—The Board of County Comrs. will receive bids until June 1 for the erection of a court-house. Wheeler & Stern, Charlotte, N. C., are Archs. H. S. Bunn is Clk.

UNION, S. C.—Bids will be received by E. Nicholson, Chn. Court House Comn., until June 1, for erecting a county court house. Plans were prepared by A. Ten Eyck Brown, 607-10 Forsyth Bldg., Union, S. C.

NEWNAN, GA.—H. C. Glover, Chn. Bd. of County Comrs., will receive bids until May 22 for the erection of a jail and jailor's dwelling. Plans were prepared by G. Lloyd Preacher, Augusta, Ga.

VILLE PLATTE, LA.—Bids will be received until July 6 by B. Dossman, Pres. Police Jury for the erection of a court house. Plans were prepared by Emile Weil, 1312 Whitney Central Bldg., New Orleans, La.

MIDDLESBORO, KY.—Bids will be received until May 24 for the construction of a court house, jail and fire department building. Baumann Bros., Henson Bldg., Knoxville, Tenn., prepared the plans.

CARROLL, OHIO.—Bids will be received until May 27 for the construction of a town hall. E. H. Rickelt, Columbus, Ohio, prepared the plans.

ELYRIA, OHIO.—Harshaw, Fuller & Goodwin Co. will erect a steel mill building type warehouse, 175 × 260 ft. The owner is taking bids. J. L. Silsbee, 25 North Dearborn St., Chicago, is Arch.

WARREN, OHIO.—Bids will be received by D. A. Kale, Clk. Bd. of Educ., until May 29 for constructing an addition to Fulton School.

✚OAK HARBOR, OHIO.—Bids were opened May 9 for the erection of a school, and A. HARMON of Toledo, was awarded the contract at his bid of about $49,000. The American Warming & Ventilating Co. of Toledo, will install the heating plant.

VAN WERT, OHIO.—Bids will be received June 8 for the erection of a high school building after plans by F. L. Packard, of Columbus.

DECATUR, IND.—Bids will be received by Samuel Butler, Treas. Washington Township, until May 18, for erecting a school in District 7.

INDIANAPOLIS, IND.—Bids will be received by the Board of School Comrs., until May 23 for constructing an addition to a school on Ashland Ave. and 13th St. Plans were prepared by Vonnegut & Bohn, Indiana Trust Bldg., Indianapolis, Ind.

INDIANAPOLIS, IND.—Bids will be received by John E. Cleland until May 19 for the construction of a branch library at Commerce St. and Nowland Ave.

ACTON, IND.—Henry J. Brown, Trustee Franklin township, has ordered plans for the erection of a 2-story brick school house in Acton. Bids will be received as soon as plans are completed and approved.

GREENSBURG, IND.—The Trustee of Clay Township has ordered plans for the erection of a large school building. Henry L. Duncan, Anderson, Ind., is Arch.

INDIANAPOLIS, IND.—The Trustees of the Marion Club have ordered plans on which bids will be soon asked for the construction of two additional stories and otherwise remodeling the clubhouse.

✚RUSHVILLE, IND.—The Rush County National Banking Co. has awarded a contract to FRANK MEAD, Indianapolis, for the construction of a business block and bank building.

✚WADESVILLE, IND.—DAVIS & BAKER, of Princeton, have been awarded a contract for the construction of a large brick school house. Clifford Shopbell, Evansville, Ind., is the Arch.

✚MISHAWAKA, IND.—The SCHMIDT CUT STONE CO. has been awarded the contract for the construction of the Eberhart Memorial Church at $150,000. The building will be of Bedford stone.

DETROIT, MICH.—The hotel and theater of the Riverview Park Co., Milford Stern, Secy., 210 Grand Blvd. East, was totally destroyed by fire Saturday, May 7, with a loss of about $116,000. The building will immediately be replaced with modern, strictly fireproof structures.

GRAND RAPIDS, MICH.—The Order of Moose, Dr. S. Porter Tuttle, Chn. of Building Com., Porter Bldg., Grand Rapids, Mich., are contemplating a new 8-story and basement fireproof temple.

✚HOUGHTON, MICH.—The Swift Co., wholesale hardware dealers, Houghton, Mich., have awarded the contract to J. MICHELS, Houghton, Mich., for the construction of a 4-story and basement office building, 50 × 110 ft. to cost about $45,000.

MUSKEGON, MICH.—S. S. Beman, 606 South Michigan St., Chicago, Ill., is preparing plans and will soon take figures on a 2-story and basement art gallery, 50 × 129 ft. for the Hackley Art Gallery. The cost is about $45,000.

MARQUETTE, MICH.—Carlton & Kuenzle, Marquette, Mich., are preparing plans for a 2-story and basement tenement building, 100 × 150 ft. for W. W. Hargrave, Grand Marais, Mich.

PORT HURON, MICH.—I. Erb, 30 White Bldg., will soon take figures on a 3-story and basement building for the Y. M. C. A., Burt D. Cady is Chn. of Bldg. Com. Cost, $45,000.

CHICAGO, ILL.—Rothschild & Co. has acquired under a long term lease the premises 324-328 Wabash Ave. and will erect a new 10-story basement and sub-basement fireproof building. Holabird & Roche, Monadnock Block, have plans under way.

✚Contract for the construction of the Wiebolt store, office and theatre building on Lincoln, Ashland and Belmont Aves. to cost about $250,000(has been awarded to H. EILENBERGER, People's Gas Bldg., Chicago, Ill.

BLOOMINGTON, ILL.—Bids will be received in about three weeks by Raeder G. Woods, Arch., 20 West Jackson Boulevard, Chicago,.. Ill., for the construction of the proposed passenger station for the Chicago & Alton Ry., at Bloomington.

✚CHICAGO, ILL.—Jennie, Mundie & Jensen, 393 La Salle St., have awarded the masonry contract for the building for the Pittsburg Construction Co., 53d St. and Jefferson St., to HARPER BROS.

A. S. Alschuler, Arch., 28 East Jackson Boulevard, is taking figures on the 6-story $100,000 reinforced concrete lodging house to be erected at 621 Madison St., by John C. and George E. Spry.

The contract for the construction of the 7-story reinforced concrete Lowe building, to be built on corner of Adams and Green Sts., has been let to the PLEAS CONCRETE CONSTRUCTION CO., 160 Washington St.

S. N. Crowen, Arch., 30 North La Salle St., will receive bids until about May 20 on the $50,000 office building, to be erected on the corner of Michigan and River Sts.

CHICAGO, ILL.—According to press reports the Chicago, Burlington & Quincy R. R. Co., has purchased the site on the corner of Jackson Boulevard and Clinton St. for the erection of a 14-story general office building, involving an expenditure of over $1,500,000. Two thousand employes will be housed in the new building, which will be the largest devoted exclusively to office purposes of a single railroad in the country. Work will commence shortly and new offices are expected to be ready for occupancy next spring. George B. Harris, Chicago, Ill., is Ch. of Bd. and Ch. Exec. Com.

MILWAUKEE, WIS.—The Pulaski Investment Co. will erect a store and amusement building on the southwest corner of Bremen and Locust Sts. at a cost of $40,000. The structure will be 90 x 120 ft. and three stories high.

A permit has been issued to E. R. Godfrey & Sons Co. for the erection of a building on the northeast corner of Detroit St. and Broadway. The building will be eight stories high, 16 × 120 ft. and of reinforced concrete construction. The estimated cost is $100,000.

SAC CITY, IOWA.—Bids will be received by the Bldg. Com. until May 22 for the construction of a library building. Plans were prepared by Proudfoot, Bird & Rawson, 625 Flynn Bldg., Des Moines, Iowa.

JACKSON, MINN.—The Board of Education will receive bids until May 20 for erecting a 3-story school. Plans were prepared by Buechner & Orth, Shubert Theatre Bldg., St. Paul, Minn.

MANTORVILLE, MINN.—The Board of Education will receive bids until May 19 for constructing a school. Plans were prepared by F. D. Orff, 615 Lumber Exchange, Minneapolis, Minn.

OTTAWA, KAN.—Bids will be received by the Bd. of Co. Comrs. until May 26 for erecting a 2-story infirmary building. F. Baldwin is Co. Clk.

WELLINGTON, KAN.—Bids will be received until June 19 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office.

NORFOLK, NEB.—Bids will be received by H. C. Matrau, Secy. School Dist., until May 23, for constructing a 4-room addition to Lincoln School and a 2-room addition to Grant School. James C. Stitt, Norfolk, Neb., Prepared the plans.

ROSALIE, NEB.—Bids will be received by Thomas Johnson until May 26 for constructing a school building. Plans were prepared by J. H. Craddock, Continental Bldg., Omaha, Neb.

ATHOL, S. DAK.—Bids will be received by A. W. Price, Secy. Bd. of Educ., until May 25, for erecting a school. Plans were prepared by A. H. Shoultz, Watertown, S. Dak.

BELLE FOURCHE, S. DAK.—The Board of County Comrs. will receive bids until May 22 for constructing a court-house. D. Barr is Co. Audr.

DOLAND, S. DAK.—Bids will be received by H. G. Joy, Secy. Bd. of Educ., until May 27, for erecting a school. Plans were prepared by A. H. Shoultz, Watertown, S. Dak.

MILLER, S. DAK.—Bids will be received by the Miller Bldg. Co., Inc., until May 20, for the construction of a business block with basement. Plans were prepared by George Issenhuth, Huron, S. Dak.

MITCHELL, S. DAK.—Bids will be received by the Dakota Wesleyan University until May 19 for constructing a 3-story building. Plans were prepared by Ellerbee & Round, St. Paul, Minn.

RAPID CITY, S. DAK.—Bids will be received by the Rapid City Elks Bldg. Assn. until May 24 for erecting an Elks' club building. Plans were prepared by the Fall River Co., Hot Springs, S. Dak.

VERMILLION, S. DAK.—Bids willl be received by the Regents of Education until May 23 for constructing additions in East Hall at the University, South Dakota. Plans were prepared by Joseph Schwartz, Sioux Falls, S. Dak.

VALLEY CITY, N. DAK.—The State Bd. of Normal School Trustees will receive bids until May 23 for constructing a 3-story fireproof building at the State Normal School. Plans were prepared by the Hancock Bros., Fargo, N. Dak.

KALISPELL, MONT.—M. B. Riffo, Whipp Block, will receive bids until May 29 for the construction of a 3-story brick and concrete hospital.

HOPE, ARK.—Bids were received as follows on May 11, by James Knox Taylor, the Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Hope, Ark.: L. R. Wright, Dallas, Tex., $47,463; Hiram Lloyd Building & Construction Co., St. Louis, Mo., limestone $42,548, sandstone $43,048; Newport Contracting & Engineering Co., Newport News, Va., limestone $46,854, sandstone $47,854; Algernon Blair, Montgomery, Ala., limestone $43,496, sandstone $44,796; M. B. Whitlock, Denton, Tex., $44,500; Cecil L. Saunders, Hot Springs, Ark., limestone $40,700, sandstone $41,700; King Lumber Co., Charlottesville, Va., limestone $42,700, sandstone $45,000; Dieter & Wenzel, Joplin, Mo., limestone $41,278, sandstone, $42,000; Moose & Rogers, Marshall, Tex., limestone $39,450, sandstone $39,950.

✚CORSICANA, TEX.—The Board of Trustees of the State Orphans Home at this place has let the contract to GEORGE W. BREILHART & CO., of San Antonio, for the erection of a boys' dormitory building, to cost $44,582. It will be of brick construction.

✚CENTRAL POINT, ORE.—The contract for the construction of 32,647 ft. of concrete sewer has been awarded to the JACKSON BADE CO., at $65,000. L. W. Osgood, Medford, is Engr.

VENTURA, CAL.—Bids will be received by R. Owens, Clk. Bd. of Trus., until May 20 for erecting a high school. Plans were prepared by Norman F. Marsh, 212 Broadway Central Bldg., Los Angeles, Cal.

BAKERSFIELD, CAL.—The engineering offices of the Pacific Telephone & Telegraph Co., in San Francisco, are preparing plans for a 3-story concrete telephone exchange to be erected on 20th St., 50 × 110 ft., tile roof and cement floors, plastered exterior and Mission style.

✚GEORGE F. KING, Hotel Shattuck, has secured the contract at $47,500 for constructing a 4-story brick building at Haste and Shattuck Aves., for Enoch Morrill, of Irvington.

SAN FRANCISCO, CAL.—Lewis P. Hobart, Crocker Bldg., has been retained to prepare plans for a hospital building for St. Luke's Hospital. The structure will be of Class A. construction and will cost $400,000. Steel frame, and reinforced concrete walls, pressed brick and terra cotta. The mechanical equipment will be of the most modern type.

✚SAN FRANCISCO, CAL.—The following contracts have been awarded through the office of Architect Smith O'Brien, Humboldt Bank Bldg., for a 3-story steel frame Class C building for the Roman Catholic Orphan Asylum, at Newhall and Thornton Aves. Carpenter work to O. P. QUINN, 402 Kearney St., at $77,948, and BUTCHER & HADLEY, 180 Jessie St., for Granite, brick, bond iron, fuel chutes, cementing, etc., $32,378.

✚SAN FRANCISCO, CAL.—The contract has been awarded through the office of Chas. J. Colley, Pacific Bldg., for the construction of a 6-story Class C. brick apartment house on Bush St., for Helen McCrum, 2319 Calif. St., for carpenter and allied work, to ROBERT DEWAR & SON, 180 Jessie St. at $63,309.

ESSEX, ONT.—Bids will be received until May 31, by R. C. Desrochers, Secy. Pub. Wks. Dept. Ottawa, for the construction of a public building. Specifications and information at office of H. J. Lamb, Dist. Engr., London, or Post Office, Essex, or De[illegible]. Ottawa.

CRANBROOK, B. C.—Bids will be received by the Dept. of Indian Affairs, Ottawa, Ont., until May 29, for constructing a large industrial school at St. Eugene Mission.

REVELSTOKE, B. C.—Bids will be received until May 31 by the Minister of Public Works, Victoria, for the erection and completion of the court house. J. E. Griffith, Victoria, Pub. Wks., is Engr.

STRATHCONA, ALTA.—Bids will be received until May 29 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of an armory. Specifications on application to J. E. Cyr, Supt. Pub. Bldgs., Winnipeg, Man.

WATER SUPPLY—IRRIGATION.

(*✚Denotes a contract awarded.*)

NORTH HAVEN, ME.—The town is considering the construction of a water-works system. J. O. Brown is Town Clk.

TOPSHAM, ME.—The Trustees of the Brunswick & Topsham have voted to have plans and specifications prepared for the construction of a large reservoir on Sprague's Hill, Topsham.

OSSIPEE, N. H.—Dudley & Sawyer, Manchester, are preparing plans for the water-works for the Ossipee Water Co. to supply the villages of Moultonville, Mountainview and Center Ossipee with water by gravity from Dan Hole Pond.

SHELBURNE FALLS, MASS.—The Fire District, on May 2, voted to appropriate $15,000 for the installation of a gravity water system. George W. Jenks is Clk.

•CORTLAND, N. Y.—Bids will be received by the Water Board until May 25 for constructing a 1,000,000-gallon standpipe of open-hearth steel or ingot iron; and place for concrete foundation for a 1,000,000-gallon standpipe.

FREDONIA, N. Y.—Plans prepared by E. A. Wilder, Consult. Engr., for water supply improvements have been adopted by the city.

MEXICO, N. Y.—W. G. Stone, Mann Bldg., Utica, N. Y., is preparing plans for the construction of water-works. Estimated cost, about $40,000.

MOUNT VERNON, N. Y.—The Common Council will ask for bids soon for sinking four artesian wells to augment the city's water supply. Archibald Beresford is Comr. Pub. Wks.; Peter Collins is City Clk.

•GENEVA, N. Y.—Bids were received as follows on May 11 by the city for laying a 20-in. water main: LUPFER & REMICK, Buffalo, N. Y., $10,640 (awarded contract); Thomas Fitzgerald, Fredonia, N. Y., $10,909; John D. Kuhn, Greenburg, Pa., $13,144; D. D. Dugan, Olean, N. Y., $14,830; Henry W. Golden, Troy, N. Y., $14,121; Burns, McConville Construction Co., Ogdensburg, N. Y., $12,034.

•BINGHAMTON, N. Y.—Bids will be received until 3 p. m., May 31, by the State Commission in Lunacy for changing refrigerating plant, additional water supply (filtration plant) and fire escapes for nurses' home at Binghamton State Hospital, Binghamton. T. E. McGarr is Secy.

TROY, N. Y.—Bids will be received until May 23 by the Board of Contract and Supply for laying 6-in. water mains, specials, valves, hydrants, etc., drawing pipe from delivery points, furnishing lead, calking joints, etc., in Brunswick Road, from Orchard Ave. to city line, 3,440 lin. ft.; Pine Woods Ave., from Elm Grove Ave. to city line, 2,163 lin. ft.; River Road, from 26th St. to city line, 2,514 lin. ft.; Forest Ave., 1,080 lin. ft. Separate bids for each division of the work are requested. Also, for furnishing f. o. b. cars Troy, for use of Department of Public Works, Bureau of Water Supply, 161 tons of 6-in. water pipe, 32 tons of 4-in. water pipe and 3 tons of odd specials, Class C, bell and spigot, made and tested in accordance with standard specifications for c.-i. water pipe and castings adopted May 12th, 1908, by the American Waterworks Association, capable of withstanding a pressure of 130 lbs., and specials to correspond, delivery to begin on or before June 20, 1911.

•NEW YORK, N. Y.—Bids were received on May 16 by the Board of Contract and Supply for Contracts 63, 65, 66 and 67. The approximate totals were, Contract 63: Mason & Hanger, Cornwall-on-Hudson, $3,709,372; Grant, Smith & Co. and Locher, Rome, N. Y., $3,775,552; Keystone State Construction Co., Philadelphia, Pa., $3,782,760; Pittsburgh Contracting Co., Pittsburg, Pa., $3,999,380; The T. A. Gillespie Co., 50 Church St., New York, $4,403,540; S. Pearson & Son, 507 Fifth Ave., New York, $4,433,024; Bradley Contracting Co., 1 Madison Ave., New York, $4,546,052; Metropolitan Contracting Co., 95 Milk St., Boston, Mass., $4,627,360; Degnon Contracting Co., 60 Wall St., New York, $4,639,710. Contract 65: Pittsburg Contracting Co., Pittsburg, Pa., $5,590,225; The T. A. Gillespie Co., 50 Church St., New York, N. Y., $6,822,100; Bradley Contracting Co., 1 Madison Ave., New York, N. Y., $6,798,819; Degnon Contracting Co., 60 Wall St., New York, N. Y., $6,872,255; Patrick McGovern, 6 Beacon St., Boston, Mass., $5,775,393. Contract 66; Grant, Smith & Co., and Locher, Rome, N. Y., $4,512,605; The T. A. Gillespie Co., 50 Church St., New York, N. Y., $5,550,005; Bradley Contracting Co., 1 Madison Ave., New York, N. Y., $5,028,686; Degnon Contracting Co., 60 Wall St., New York, N. Y., $4,961,645; United Engineering & Contracting Co., 17 West 42d St., New York, N. Y., $4,719,925. Contract 67: Holbrook, Cabot & Rollins Corporation, 103 Park Ave., New York, N. Y., $5,272,435; United Engineering & Contracting Co., 17 West 42d St., New York, $5,295,219; J. F. Cogan Contracting Co., 280 Broadway, New York, N. Y., $5,469,307; Bradley Contracting Co., 1 Madison Ave., New York, N. Y., $5,976,921; The T. A. Gillespie Co., 50 Church St., New York, N. Y., $6,281,455; Degnon Contracting Co., 60 Wall St., New York, N. Y., $6,417,385; Winston & Co. and Brenchard & Rogers, 290 Broadway, New York, $6,478,450; McArthur Bros., 11 Pine St., New York, $6,572,515. Itemized bids are given under Contract Prices in this issue.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. of Water Supply, Gas and Electricity, until 2 p. m., May 24, for furnishing, delivering and laying water mains and appurtenances in Academy, Amity, Bragaw, Cherry, Crescent, West Grove, Hancock, Henry, Lawrence, Poplar, Radde, Willow, 13th and 14th Sts.; in Bayview, Bowne, Ditmars, Graham, Hunters Point, Jamaica, Lawrence, Mitchell, Myrtle, Payntar, Prospect, Skillman, Van Alst, Waldo, Washington, Whitestone, Wilbur, First, Third, Fourth, Sixth, 16th and 18th Aves.; in Covert and South Washington Places; in Boulevard and in College Point Causeway, Boro. Queens; and furnishing and delivering well-driving machinery, Boro. Brooklyn.

•NEW YORK, N. Y.—Bids were received as follows on May 4 by the Board of Water Supply for Contract 77, for the Wakefield Ave. blowoff from the Hill View Reservoir: T. J. and George L. Brown, 87 Hamilton Pl., New York, $58,178; Keystone State Construction Co., 704-709 Penn Bldg., Philadelphia, Pa., $63,935; King-Ganey Contracting Co., $64,481; D. Cuozzo & Co., Park Row Bldg., New York, $65,511; Voorhees-Sullivan Construction Co., Dorothea Pl., Fordham, N. Y., $69,907; Godwin Construction Co., 30 Church St., New York, $69,931; William F. Norton, 215 West 125th St., New York, $71,635; T. M. McLeod Co., 90 West St., New York, $72,859; Patrick Derry, 44 Jane St., New York, $73,121; F. N. Lewis, 263 Fourth Ave., New York, $73,697; Sillery, Nordone & Sillery, Mount Vernon, N. Y., $76,625; Phoenix Construction Co., 41 Park Row, New York, $97,764.

The Board of Estimate on May 11 approved the plan of Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for the completion of the easterly basin of the Jerome Park Reservoir, and the construction of a sand filtration plant for the purification of the water from the Croton watershed. The board authorized the issue of $8,690,000 in corporate stock to carry out the proposed improvements.

✚•FORT H. G. WRIGHT (New London, Conn., post-office), N. Y.—Contracts have been awarded as follows for the construction of additions to the water system here: L. B. JACOBS, Newark, N. J., for the construction of two concrete pump houses and for furnishing and installing two electrically-driven centrifugal pumps at $6,890; McHARG-BARTON CO., New York, for the construction of a 200,000-gallon reinforced-concrete reservoir, at $11,000.

TRENTON, N. J.—Johnson & Fuller, Consulting Engrs., 150 Nassau St., New York, have prepared plans for a sterilization plant for the city, to be used until the water filtration plant has been constructed.

•CROSSWICKS, N. J.—Bids will be received by the Crosswicks Water Co., Crosswicks, addressed to George B. Thorn, Secy., until 7:30 p. m., May 26, for the complete construction of a water-works, including piping, pumping station with equipment, standpipe or tower, collecting system and all machinery and accessories.

•BRISTOL, PA.—Bids addressed to the Borough Council will be received until noon, June 7, for furnishing materials and constructing a complete system of water-works and filtration plant, comprising the following: Bulkhead and intake; pump well, pumping station, mechanical gravity filter plant, capacity 2,000,000 gallons, pumping machinery and boilers; water tower, capacity 150,000 gallons; about ten miles of 4-in. to 14-in. cast iron pipe; fire hydrants, stop valves, special castings, etc.; pipe laying. Bids will be received for the entire work or any portion thereof. Plans may be seen and specifications and blank forms of proposal procured by applying to the office of the Borough Surveyor, No. 209 Radcliffe St., Bristol, Bucks County.

✚ERIE, PA.—The contract was let for 400 pieces of 6-in. pipe to be used in extension of water mains by the Water Commissioners on May 6 to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Chicago, Ill., at $21.75 per ton delivered in Erie. Other bids were as follows: American Cast Iron Pipe & Foundry Co., Detroit, $24.85; Standard Cast Iron Pipe & Foundry Co., Bristol, Pa., $22.50; Massilon Iron & Steel Company, $24.15.

ETNA (Allegheny post-office), PA.—Bids will be received until 5 p. m., May 22, by the Borough Council, for the construction, delivery and erection of the necessary boilers, smoke connections, boiler foundations, stack and stack foundations for the water-works. J. C. Armstrong is Clk.

✚BELLEVUE, PA.—We are officially advised that the Ohio Valley Water Co. has awarded the contract for drilling the additional 12-in. wells for the water supply on Neville Island to J. M. ALLEN, of Pittsburg, Pa. Chester & Fleming are Engrs., Union Bank Bldg., Pittsburg.

CAMDEN, PA.—The State Board of Health has approved the plans of the city for the installation of a new water-supply system.

FRANKLIN, PA.—The city will spend about $23,000 for improvements to the water-works, including pump, boiler, etc. Phil. Heid is Supt. W.-Wks.

JUNIATA, PA.—H. C. Linton, of Altoona, Pa., is preparing plans for the construction of water-works here. W. H. Baird is Village Clk.

✚LANCASTER, PA.—We are officially advised that bids were received as follows on May 9 by the Water Department for the construction of a concrete dam across Conestoga River: LEHIGH ENGINEERING & CONTRACTING CO., Lancaster, $15,119 (awarded contract); G. W. Rockwell, Sunbury, Pa., $16,942; Otto Paving Construction Co., Lancaster, $21,191; Mason Hilton Co., New York, $28,498.

✚BELLEVUE, PA.—The Ohio Valley Water Co. has awarded the contract for lining the supply reservoir at Bellevue to PIHL & MILLER, of Pittsburg, Pa. Chester & Fleming, of Pittsburg, are Consult. Engrs.

✚SPRINGDALE, PA.—Bids were received on May 1 by H. J. Barnes, Council Clk., for constructing 35,660 lin. ft. c.-i. water lines and a 350,000-gallon reservoir, etc.; also 33,600 ft. of sewers. Twenty-one bids were opened. The contract has been awarded to THONEY PIETRO, of Morgantown, W. Va. Douglass & McKnight are Engrs., 1709 Union Bldg., Pittsburg, Pa.

LA PLATTE, MD.—The Board of Town Commissioners are planning for the construction of a water-works system. Bonds for $15,000 have been voted. The drilling of an artesian well is contemplated. J. D. Robertson and F. B. Matthews are members of the Board.

✚LURAY, VA.—The city has awarded the contract to A. W. McKIM and JOSEPH T. CAMPBELL, of Luray, for constructing extensions to the water-works. The work includes laying 5,000 ft. of 6-in. and 13,000 ft. of 4-in. pipe, and the construction of a concrete filtering intake. The reservoir will have a capacity of 10,000,000 gallons.

RICHMOND, VA.—The water-works construction contemplated by the city consists of connecting South Richmond with the reservoir on the North Side, requiring the installation of a 20-in. main across the James River, either submerged or on a bridge. When funds are available, plans will be prepared. E. E. Davis is Supt. W.-Wks.

•LEXINGTON, VA.—Bids will be received until noon, June 1, by the Town of Lexington, for furnishing 41,800 ft. of wood pipe and 16,800 ft. of 8-in. cast-iron pipe valves and special castings; also for the construction of a small concrete intake and pipe laying. For details see advertisement elsewhere in this issue.

POINT PLEASANT, W. VA.—The Town Council of North Point Pleasant has passed an ordinance providing for a bond issue of $6,000 for the installation of a water system.

CONCORD, N. C.—Bids will be received until 3 p. m., May 31, by the Board of Water and Light Commissioners for the construction of water-works, including an auxiliary pumping station, about two miles of c.-i. pipe; a 1,000,000-gallon reinforced concrete sedimentation reservoir and coagulating basin; a 1,000,000-gallon filter plant. Gilbert C. White is Engr., Durham, N. C.

MORGANTON, N. C.—The city has voted $35,000 of bonds for the installation of a water-works system.

THOMASTON, GA.—The city has voted $50,000 of bonds for the construction of water-works and a sewerage system.

FORT PIERCE, FLA.—The city is contemplating an issue of $25,000 of bonds for the construction of a water-works system.

FORT MORGAN, ALA.—Bids will be received until 1 p. m., June 2, by Lieut. E. F. Barlow, Const. Q. M., U. S. A., for a motor-driven deep-well pump, electric transmission line, switch panel, transformer, 4-in. c.-i. water main, etc.

POLLARD, ALA.—The city is considering the installation of a water-works and sewerage system.

NEWPORT, TENN.—The city, it is stated, has engaged W. P. Bullock, Consult. Engr., of Kansas City, Mo., to prepare plans for the construction of the proposed water-works system. Bonds for $50,000 have been voted.

BARNESVILLE, OHIO.—Bids will be received by Edwin Wilson, Villake Pres., until May 22, for laying water pipe from the end of present line of Bond Ave. north 880 ft., and placing two hydrants with all necessary connections; for laying a 4-in. water pipe on Ohio St., from Main St. to the end of Ohio St., a distance of 750 ft., and placing two hydrants with all necessary connections.

CINCINNATI, OHIO.—Bids will be received until noon, May 22, by the Director of Public Service, for the construction, delivery and erection of two turbine water wheels in the headhouse of the filtration plant, located at California, Ohio; and for laying c.-i. pipe, special castings and valves and other miscellaneous work in connection therewith for the water-distributing system in Linwood Road, Eastern Ave., Union Levee and Ohio Pike to Mount Washington. John J. Wenner is Clk.

KENTON, OHIO.—Bids will be received until noon, May 23, by the Director of Public Service, at the office of G. S. Binckly, City Clk., for the construction, delivery and installation of one pumping engine with a capacity of 2,500,000 gallons of water per 24 hours. V. H. May is Supt. W.Wks. Charles Brossmann, Union Trust Bldg., Indianapolis, Ind., is Consult. Engr.

✚MANSFIELD, OHIO.—Contracts for water-works improvements here were awarded as follows on May 6: 260-HP. Corliss engine, to HOOVEN, OWENS, RENTSCHELER & CO., of Hamilton, Ohio, at $3,200; pumps, to HENRY R. WORTHINGTON.

LORAIN, OHIO.—Plans are being made for the construction of an outside settling basin at the filter plant.

ZANESVILLE, OHIO.—Johnson & Fuller, Consult. Engrs., 150 Nassau St., New York, have prepared plans for a water system and an 8,000,000-gallon filtration plant. Estimated cost $250,000.

SOUTH BEND, IND.—A complete rehabilitation of the water-works system at a cost of approximately $335,500 has been recommended by Clinton S. Burns, of Burns & McDonnell, Consult Engrs., Scarritt Bldg., Kansas City, Mo.

•MARQUETTE, MICH.—Bids for furnishing all labor and materials for the construction of an extension of the existing water-works intake will be received by the Board of Fire and Water Commissioners at the office of John P. Kern, Secy., until 8 p. m., June 9, in accordance with the plans and specifications on file at the office of the Board, from whom copies may be obtained, and also on file at the office of Hering & Fuller, Engrs., 170 Broadway, New York. The work consists of furnishing and laying an extension of the present intake pipe, approximately 2,230 ft., the extension to be 36-in. cast pipe with all necessary flexible joints, fittings, anchorages, crib, riprap, dredging, etc., as shown on plans and specifications, pipe to be laid in from 22 to 70 ft. of water.

CICERO, ILL.—Bids will be received by John Forest, Secy. Board Local Improvements, until 8 p. m., May 23, for constructing water mains in South 52d and South 53d Courts. Charles Stoffel is Clk.

CHICAGO, ILL.—The Commissioner of Public Works has awarded the contract for furnishing and installing sluice gates in the Southwest Land Tunnel [illegible] the COFFIN VALVE CO., Neponset, [illegible] Mass., at $7,000.

CANTON, ILL.—The city [illegible] considering the construction of a water-works system.

NEW ATHENS, ILL.—[illegible] will be received in about 60 days for construction of a water-works system at [illegible] cost of $25,000. C. G. Redinger, Che[illegible] Bldg., St. Louis, Mo., is Engr. A. Loo[illegible] City Clk.

HOMER, IOWA.—Bids will [illegible] received by G. G. Gill, Town Clk., until May 22, for material for water-works.

SIOUX CITY, IOWA.—Bids will be received by the City Clerk until [illegible] a. m., May 20, for excavating and refilling trenches for water main in Geneva St. from 15th St. to 26th St. and in 26th St. to Myrtle St. Specifications may be had at office of C. B. Healy, Supt. Parks and Public Property.

COUNCIL BLUFFS, IOWA.—The City Council has voted to purchase the water plant at the valuation placed on it by the first court in condemnation held [illegible] the State. Bonds have been voted for [illegible] for the purchase of the plant. The valuation is $510,500.

LAKE CITY, MINN.—The Board of Water and Light Commissioners, [illegible] Johns, Pres., will receive bids until 8 p. m., May 25, for laying water pipes, hydrants, etc.

ZUMBROTTA, MINN.—Albert Severson, Village Recdr., will receive bids until 8 p. m., May 26, for five blocks of [illegible] mains with five fire hydrants.

✚CHAPPELL, NEB.—Bids were opened on May 8 by the city for the construction of water-works and an electric light plant. The contract has been awarded to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa. W. E. Donner is Engr., Grand Island, Neb.

HURON, S. DAK.—C. N. McIlvaine, Secy., will receive bids until 10 a. m., May 23, for the drilling and completion of a 6-in. artesian well at the State Fair Grounds.

✚BROOKINGS, S. DAK.—The contract for laying about 13½ blocks of pipe, special castings, valves, etc., has been awarded to ROBERTS & FEW, of Brookings, at $5,80[illegible].

✚KENMARE, N. DAK.—We are officially advised that the contract has been awarded to J. D. BENNETT, of Kenmare, for water mains in First St.

FARGO, N. DAK.—The following bids were received by the city for the construction of the filter plant: T. F. Powers & Co., Fargo, $109,300; J. Birch & Sons, $118,000; James Kennedy, $98,960; Pittsburg Filter Mfg. Co., $115,700; Fargo Plumbing & Heating Co., $130,507. Bids for engines were: Fargo Plumbing & Heating Co., four bids averaging $22,000; Platt Iron Works Co., horizontal, $12,650, vertical, $23,800; Epping-Carpenter Co., horizontal, $12,700; James Kennedy, 4-bearing, $12,300, 2-bearing, $11,860; Murray Iron Works Co., $14,748; Allis-Chalmers Co., vertical, $26,000, horizontal, $12,625. For boilers and stokers: Robinson, Carey & Sands, $10,460; Detroit Stoker & Foundry Co., $8,450; James Kennedy, $8,062; R. B. Whittaker Co., $9,965; E. B. Whittaker, $9,715; Minneapolis Steel & Machinery Co., $7,547; Oil City Boiler Works, $9,832.

MANDAN, N. DAK.—Bids will be received by Lee Nichols, City Auditor, until 2 p. m., June 2, for improvements to the water-works system, hauling and laying c.-i. water mains and appurtenances, intake, intake well, settling basins, clear water well, furnishing hydrants, valves, etc. Plans and specifications will be on file after May 22 at the office of the City Engineer, Mandan, or may be obtained from Burns & McDonnell, Consult. Engrs. Scarritt Bldg., Kansas City, Mo.

GLASGOW, MO.—Bids will be received until May 19 by R. E. Turner, City Clk., for furnishing material and extending the water-works.

PLEASANT HILL, MO.—Bids will be received until 11 a. m., May 25, by C. W. Dobbins, Pleasant Hill, for the construction of a water-works system, including 1,500 ft. of 8-in. pipe, 10,000 ft. 6-in., 7,500 ft. 4-in., lake covering 100 acres, two 220-gallon per min. motor-driven pumps, 50-000-gallon tank on 50-ft. tower. Bids may be submitted on entire plant or on portions.

FORT WORTH, TEX.—The City Commission on April 29 adopted the majority report of the Board of Special Engineers favoring the West Fork site for the proposed new reservoir. Estimated cost, about $1,000,000.

TERRELL, TEX.—Plans are being prepared by W. P. Allen, of Terrell, for wells, etc., for an artesian water system. Estimated cost, $12,000.

✚OKLAHOMA CITY, OKLA.—The city awarded the contract to HUNTER & HUNTER, of Oklahoma City, for constructing a sedimentation basin at the water-works pumping station, at $12,988. The basin will be 200 ft. long, 100 ft. wide and 12 ft. deep, and will increase the capacity of the plant about 2,000,000 gallons daily. V. G. Shinkle is Supt. Water Dept.

TULSA, OKLA.—The City Commissioners have instructed the Commissioner of Water Department to have plans and specifications prepared for a sedimentation basin to have capacity of from 6,000,000 to 7,500,000 gallons. Estimated cost, $25,000. L. J. Martin is Mayor.

VIAN, OKLA.—Bids will be received by the Town Trustees until May 22 for furnishing the material and constructing a water-works system. E. W. Gantt of Fort Smith, Ark., is Engr.

WETUMKA, OKLA.—The city voted $10,000 of bonds for extensions to the water-works and electric-light system.

CARLSBAD, N. MEX.—The West Side Farmers' League has been organized here for the purpose of aiding in bringing about an enlargement of the Carlsbad Irrigation Project. The proposed work involves the construction a third reservoir to have a storage cap equal to both of the present reservo a cost of about $700,000; the cement a portion of the present canal, at a co about $300,000; and the installation pumping plant to lift the water into a canal in order that a section of upland be irrigated. The officers of the organiz are: W. H. Merchant, Pres.; Samuel es, Vice-Pres.; Charles P. Jones, Secy.-T all of Carlsbad.

CARS CITY, NEV.—The Reclamation Service been planning for the construction the proposed Lahontan Dam, Truck son Project, Nevada. The dam is loca n the Carson River just below the ou f the main Truckee Canal, and will co of an earth embankment 1,350 ft. long maximum height of 125 ft., and a volu of about 730,000 cu. yds. It will form a age reservoir having an area of 11,000 , and a capacity of 290,000 acre-ft. It be 20 ft. wide on top, with an upstrea of 3 to 1 protected by two feet of ripr and a downstream slope of 2 to 1, protec y one foot of riprap. The estimated of the dam is $1,250,000, and the estima quantities are as follows: Excavation, 000 cu. yds.; embankments and backfil 713,400 cu. yds.; concrete, 60,375 cu. yd paving and riprap, 26,900 cu. yds.; steel, 000 lbs. G. G. Cole is Project Mgr. on, Nev.

*TH LE, UTAH.—Bids will be received until 2 p. m., June 19, by the U. S. Reclama ion Service, Provo, Utah, for construct a dike to be located about 35 miles north of Thistle. The work involves approxim the following: 88,000 cu. yds of ea work, 4,800 cu. yds. of rock, 12,100 cu. y of paving, 1,400 lin. ft. of drain tile, 1,700 cu. yds of reinforced concrete. For particulars address the United States eclamation Service, Provo, or Washington, D. C. Walter L. Fisher is Secy.

MARCUS, WASH.—The offer made to the town by H. V. Gates, of Hillsboro, Ore., to supply the town with a water and electric light system has been accepted by the Town Council. The franchise calls for a high-pressure gravity water system for all purposes. The electricity will be furnished from the power plant near Meyers Falls. Estimated cost of both plants, about $40,000.

SUMNER, WASH.—The city is considering the construction of a water tank with a capacity of 16,000 gallons.

ROCKFORD, WASH.—The City Council has awarded the contract for 1,600 ft. of pipe for water mains to D. C. FARNSWORTH.

BAKER CITY, ORE.—Bids will be received about June 1 for the construction of 43,100 lin. ft. of 18-in. concrete or wood-stave pipe for gravity water supply. The pipe will replace present wood flume. Estimated cost, about $90,000. I. W. Bailey is City Engr.

CORNING, CAL.—The contract for a complete water-works system was awarded, on May 2, to BRAUN, WILLIAMS & RUSSELL, INC., 503 Market St., San Francisco, Cal., at $40,500.

CHICO, CAL.—The Board of Trustees has instructed the City Engineer to prepare plans and specifications for a fire cistern, to hold 25,000 gallons of water, to be constructed at the corner of Sycamore and First Sts.

LINDSAY, CAL.—Bids will be received about the middle of June for the construction of water-works here. Estimated cost, $30,000. Haviland & Tibbetts are Engrs., Alaska Commercial Bldg., San Francisco, Cal.

FRESNO, CAL.—The International Land Co., of Fresno, is having surveys made for a large irrigation system, consisting of dams, reservoirs, pumping stations, etc. Estimated cost, $200,000. Charles Teague, of Fresno, is Vice-Pres.

SAN PEDRO, CAL.—Surveys are being made for the installation of new salt water mains for fire protection.

OROVILLE, CAL.—Bonds for the $50,000 for the municipal water and sewer systems have been voted. It is proposed to use $23,-000 of this sum for the construction of a sewer system and the balance for a municipal water system.

RICHFIELD (Anaheim post-office), CAL.—Application has been made to the Board of Supervisors of Orange County, Santa Ana, Cal., for a franchise granting the right to lay water pipes, install hydrants and construct conduits; also to maintain for a period of 50 years a water plant or system for the purpose of furnishing water to inhabitants of Richfield. Bids for franchise will be received by the Board of Supervisors until 10 a. m., June 7. W. B. Williams is Clk.

LACHUTE, QUE.—Bids will be received until noon, May 22, by J. W. Raitt, Town Clk., for about 280 tons of 8-in. c.-i. water pipe.

NIAGARA-ON-THE-LAKE, ONT.—Bids will be received until 8 p. m., May 23, by the Council for repairing and enlarging the tank of the water-works system. W. E. Lyall is Clk.

DESERONTO, ONT.—Bids will be received by L. E. Allen, Consult. Engr., Belleville, Ont., until noon, June 4, by the town for the sale of the following equipment: One 75-HP. Fairbanks-Morse suction gas producer; one 65-HP. Fairbanks-Morse vertical producer gas engine; one 12 × 15 triplex pump, direct connected by friction clutch to gas engine, capacity 1,000 gallons per min. The above equipment has been operated but a short time. Changing to hydro-electric power necessitates disposing of above equipment. The plant is offered complete as a whole or separately, or an exchange for small capacity rotary pump and motor would be considered.

TAVISTOCK, ONT.—Plans for the construction of water-works here, it is reported, have been prepared by F. W. Farncombe, London, Ont. Estimated cost, $22,000.

TORONTO, ONT.—The City Council on May 1 adopted the report of the Board of Engineers recommending the construction of a new intake from the pumping station at the filtration plant to a point 2,000 ft. out in the lake in a northwest direction from the mouth of the present intake. C. H. Rust, City Engr., has been instructed to prepare plans and specifications for supplying and laying the pipe.

NEEPOWA, MAN.—Chipman & Power, Toronto, Ont., have been engaged by the town to prepare plans and specifications for the construction of the proposed waterworks and sewerage systems. Estimated cost, $125,000.

ROULEAU, SASK.—Bids will be received until 8.30 p. m., May 29, by W. H. Stewart, Secy.-Treas., for (a) trenching, laying steel water mains, hydrants, valves, etc., and backfilling; (b) constructing reinforced-concrete reservoir; (c) erecting brick powerhouse. J. Darlington Whitmore is Engr., 21-22 MacKenzie and Brown Block, Regina, Sask.

BANFF ALTA—Bids will be received until May 25 by Lynwode Perevia, Asst. Secy. Interior Dept., Ottawa, Ont., for the following material for extensions to waterworks system; to be delivered to Supt. Rocky Mountains Park: 1,680 ft. 4-in. pipe; two 4-in. gate valves; two specials 6-in. off 4-in. T.; two specials 4-in. off 8-in. T; one special with 45 degree bend; three extension valve boxes for 4-in. valves for 6 ft. trench; one extension valve box for 8-in. valve for 6 ft. tunnel; two-way Standard hydrants for 6-ft. trench; nozzle and thread to correspond to Toronto hydrants.

SEWERS.

(**Denotes that this work is advertised in Engineering News.*)

✚BUFFALO, N. Y.—The contract has been awarded to W. G. SMITH for the construction of a 15 and 12-in. sewer in Tuscarora Road and Peconic St., between Abbott Road and Potters Road, and in Potters Road, between Abbott and Woodside Ave.

MALONE, N. Y.—The Board of Education C. J. Whipple, Clk, has rejected all the bids for the construction of an addition to Franklin Academy as they exceed the appropriation of $55,500 voted for the purpose. P. J. Murtagh, Malone, was the lowest bidder, but was about $6,000 over appropriation.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. of the Boro. of Brooklyn, until May 24 for the installation of sewers in various streets and avenues.

*SYRACUSE, N. Y.—Bids will be received by the Board of Contract and Supply until May 22 for furnishing materials and constructing a 38 × 57-in. brick or concrete sewer in East Colvin St., from the terminus of the present sewer in East Colvin St., near D., L. & W. R. R. tracks, to Moore Ave.; a 34 × 51-in. brick or concrete sewer in East Colvin St., from Monroe to Jamesville Ave.; a 34 × 51-in. brick or concrete sewer, from Jamesville Ave., through lot 78, property of Mapleton Land Co., to a point about 480 ft. from Jamesville Ave. and East Colvin St.; a 36 × 54-in. brick or concrete sewer from the point last mentioned through lot 78, property of Mapleton Land Co., Oakwood and Morningside Cemetery Association to Comstock Ave.; a 38 × 57-in. brick or concrete sewer in Comstock Ave., from the point last mentioned to Broad St.; a 36 × 54-in. brick or concrete sewer in Comstock Ave., from Broad St. to a point 835 ft. south of the south line of Poplar St.; a 34 × 51-in. brick or concrete sewer from the last mentioned point east across private lands parallel with Poplar St. 393 ft. east of the east line of Comstock Ave.; a 34 × 51-in. brick or concrete sewer from the last mentioned point north through private lands parallel with Comstock Ave. to Poplar St.; a 32 × 48-in. brick or concrete sewer in Poplar St., from Ostrom to Livingston Ave., a 30 × 45-in. brick or concrete sewer in Poplar St., from Livingston to Sumner Ave., and a 24 × 36-in. brick or concrete sewer in Poplar St., from Sumner to Ackerman Ave., in the City of Syracuse, N. Y., in accordance with the plans and specifications of the City Engineer on file in the office of the Board of Contract and Supply. George J. Metz is City Clk.

*BRISTOL, PA.—Bids will be received by the Borough Council of the Borough of Bristol, Bucks County, Pa., until noon, June 7, for furnishing materials and constructing a complete system of sewerage and disposal plant, comprising the following:

The system consists of approximately ten miles of sewers, 8 to 24-in. in diameter, pump house, engines, pumps, pump well and disposal works. Bids will be received for the entire work or any portion thereof. Wm. H. Boardman, 426 Walnut St., Philadelphia, Pa., is Engr.

NORRISTOWN, PA.—Bids will be received until 8 p. m., May 31, by Charles C. Rambo, Chn. Sewer Com., for the installation of an 8-in. vitrified pipe sanitary sewer in Markley St., between Beach St. and a point about 100 ft. north of Sterigere St. S. Cameron Corson is Boro. Engr.

PITTSBURG, PA.—Bids will be received by J. N. Armstrong, Dir. Dept. Pub. Wks., until May 20, for installing a 15-in. sewer in Muriel St.

WASHINGTON, D. C.—Bids will be received until 2 p. m., May 25, by the District Commissioners, for furnishing terra cotta sewer pipe, castings. Cuno H. Rudolph is Pres.

BIRMINGHAM, ALA.—Bids will be received by the County Road Revenue until May 22 for the labor and material necessary to construct a sewage disposal plant. J. Going is Pres.

AKRON, OHIO.—Bids will be received by John W. Gauthier, Dir. Pub. Ser., until May 19, for the installation of a sewer in Noris and Jewett Sts. and a main trunk sewer in Madison, East Bellevue, Garth and Mallison Aves.

AMHERST, OHIO.—Bids will be received until noon, May 23, for the installation of a sewer system with appurtenances and a disposal plant. L. E. Chapin, Canton, Ohio, is Engr.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. of Public Service, until May 29, for the construction of the following sewers: In the alley west of Central Ave., from Sullivant Ave. to the alley south of Thomas Ave.; in Dana Ave., from Sullivant Ave. to the alley north of Union St.; in Maynard Ave., from Summitt St. to the alley west of Fourth St.; in the alley west of Neil Ave., from Tompkins St. to the alley north of Blake Ave., and in the alley north of Blake Ave., between lots 117 and 123, Montgomery and McKee's Addition; in Seventh St., from Markison Ave., to the alley north of Morrill Ave.; in Thirteenth Ave., from Summit St. to the C., C., C. & St. L. Ry.

DELAWARE, OHIO.—Plans have been completed by G. S. Irwin, City Engr., and Riggs & Sherman, Nasby Bldg., Toledo, Ohio, for the construction of a sewer system and disposal plant. The estimated cost is $25,-000. Bids will be received about July 1.

HAMILTON, OHIO.—According to reports F. E. Weaver has completed plans for a sanitary sewer in various streets in the Fourth and Fifth Wards. Estimated to cost $10,116.

✚IRONTON, OHIO.—The contract has been awarded to MATT A. MULLIGAN, Ironton, Ohio, by the Board of Public Works, at $13,-859, for the installation of a storm water sewer in Rachael creek and Cedar Alley. F. A. Ross is Clk.

MARION, OHIO.—Bids will be received by the Board of Control until May 24 for the installation of about 400 lin. ft. of 6 and 8-in. sewer pipe. P. R. Mears is Engr.

RICHWOOD, OHIO.—Bids will be received until noon May 18 by Ray L. Jordan, Vil. Clk., for the construction of sewers for the flood water drainage of Blagrove and Clinton Sts.

PIQUA, OHIO.—Bids will be receieed until May 25 by the Board of Public Service for the construction of about 4,823 ft. of sanitary sewer in South Main St.

STRUTHERS, OHIO.—Bids will be received by L. S. Creed, Village Clk., until May 24, for constructing storm water and sanitary sewers in Stewart, Hawthorne, Bridge, Broad and State Sts., and in Poland Ave.

WILLOUGHBY, OHIO.—C. C. Jenkins, Vil. Clk., will receive bids until noon June 5 for the installation of a sanitary sewer, with manholes and house and lot connections in Euclid St.

✚MARION, IND.—The contract for the construction of a sanitary sewer system, 9 to 48-in. vitrified tile and monolithic concrete has been awarded to MICHAEL & MINNICK. Equipment is needed.

INDIANAPOLIS, IND.—Bids will be received until May 25 by the Board of Public Works, for installing a sewer in Gladstone Ave. and Ethel St. H. Klausman is City Engr.

SOUTH BEND, IND.—Bids will be received by the Department of Public Works until May 23, for the installation of a pipe sewer on Clover St., from Mishawaka Ave. to St. Joseph River. Arthur P. Perley is Clk.

*GRAND RAPIDS, MICH.—Bids will be received by the Board of Public Works, until June 8, for constructing a public sewer, to b known as the East Side Trunk Sewer, according to the plans and specifications on file at the office of the Board. E. H. Christ is Pres.

IONIA, MICH.—Bids will be received until May 23 by the Board of Public Works for the installation of sanitary sewers in several streets. Donald M. Stelle is City Engr.

GLENN ELLYN, ILL.—Bids will be received in about 30 days for the construction of a sewer system, about 23 miles of 8-in. to 24-in. tile and 24-in. to 30-in. brick sewer will be laid at an approximate cost of $160,-000. The Aetna Engineering Bureau, Chicago, is Engr.

MONMOUTH, ILL.—Plans have been prepared and surveys made for a sewer system and the matter now awaits the action of the Board of Local Improvements in bringing it before the City Council.

FOND DU LAC, WIS.—Bids will be received by J. E. Hohensee, City Clk., until May 22 for the installation of a storm sewer in Third St. and sanitary sewers in Marquette and Hickory St., and to extend the Ninth St. sewer; also install a sewer in South Park Ave.

✚KENOSHA, WIS.—The contract for the construction of a concrete sewer has been awarded to CLEARY, WHITE & NEWMAN.

✚KENOSHA, WIS.—The Board of Public Works awarded the contract for constructing the trunk sewer to WHITE CONSTRUCTION CO., Milwaukee, Wis., at $97,000.

MILWAUKEE, WIS.—The Department of Public Works will receive sealed bids until May 19 for constructing and laying house drains and water service connections in about 45 blocks in various wards. Harry E. Briggs is Comr.

FORT LEAVENWORTH, KAN.—Bids will be received in triplicate until May 31 by Capt. John S. Winn, Q. M., U. S. A., for the installation of a main storm water drain in the college section.

WICHITA, KAN.—This city is considering the construction of 12-in. to 42-in. brick concrete and vitrified tile sewers at a cost of $200,000. Plans are completed. Bert C. Wells is City Eng.

HURON, S. DAK.—Bids will be received until May 22 by the City Board of Comrs. for the installation of sewers in Third and Ninth St. and in the State Fair Grounds. C. M. McIllwain is Secy. State Fair Bd.

MADISON, S. DAK.—Bids will be received by Charles A. Trimmer, City Engr. until June 20 for the installation of a sewer. The estimated cost is $65,000. William Ray is City Aud.

FARGO, N. DAK.—E. R. Orchard, City Aud., will receive bids until May 25 for the installation of two 12-in. sewers.

GREEN RIVER, WYO.—Surveys and estimates have been made for laying 2,500 ft. of 8-in. sewer to be an extension to the present sewer system. Hugo Gaenslein, Green River, Wyo., is Mayor. Turpin & Eldridge, Civil Engrs., of Rawlins, Wyo., are the Engrs. in charge.

PARIS, MO.—Bids will be received until May 25 for the construction of aproximately 3.8 miles of sewers. C. G. Goetz is Mayor.

WACO, TEX.—The Board of City Coms. has decided to call an election at some future date to vote on the proposition of issuing $80,000 of 4% bonds for the construction of extensions of the sewer system.

TULSA, OKLA.—This city will construct the Owasso Ave. east side sewer main at a cost of $20,000. Vitrified pipe will be used in 8-in., 10-in., 15-in. and 18-in. sizes. Ditching machine can be used on two-thirds of line. T. C. Hughes is Engr.

ROSEBURG, ORE.—Bids will be received until about June 1 for the construction of a sewer extension at a cost of $20,000. M. B. Germond is Engr.

BERKELEY, CAL.—W. J. Seaborn, City Clk., writes that the bond issue for storm sewers failed to carry at the recent election.

MOOSE JAW, SASK.—Bids will be received by W. F. Heal, City Clk., until May 22 for contract 32 and 33 storm sewer extension, requiring approximately 9,000 lin. ft. storm sewer, 11,300 lin. ft. 6, 8 and 10-in. vit. tile pipe, etc. J. M. Wilson is City Engr.

GARBAGE DISPOSAL.

(✚*Denotes a contract awarded.*)

✚WHITESBORO, N. Y.—The contract has been awarded to the UTICA SWEEPING & CONTRACTING CO., of Utica, N. Y., by the Village Board for Cleaning Main St., at 11 cts. per 100 lin. ft.

NEWARK, N. J.—Bids will be received until May 18 by the Board of Street & Water Commissioners for furnishing f. o. b. Newark three automatic street flushing machines, with the option to purchase at the same price a total of ten or less machines.

HUNTINGTON, IND.—Plans are being prepared on which the Board of Public Works will ask bids for the construction and equipment of a garbage reducing plant.

NORTH CHICAGO, ILL.—Bids were received as follows on May 15, by the Bureau of Navigation for constructing a garbage crematory at the Naval Training Station, North Chicago, Ill.: Specialty Engineering Co., Houston, Tex., Item (2) $7,750; (4) $7,500; (5) $300; (6) $75. Lewis & Kitchen, Chicago, Ill., (1) $7,700; (2) $7,850; (3) $7,000; (4) $7,150; (5) $900; (6) 90. James Corse, Racine, Wis., (1) 8,645; (3) $8,345; (5) $750; (6) $150.

ROCKFORD, ILL.—Bids will be received by the city until 2 p. m., May 25, for one street-sweeper. For further information address Edwin Main, City Engr.

ROCK ISLAND, ILL.—R. H. Costelo, representing the Southern Utilization Co., Boston, Mass., it is reported, has submitted a proposition to the City Commissioners for the installation of a garbage disposal plant on City Island, Davenport, for the disposal of garbage for Rock Island, Moline and Davenport, Iowa. The proposition provides for a bonus of about $20,000 from the cities for the establishment of the plant. The company will then enter into a contract with the cities for the disposal of garbage at a rate of about $3,000 a year for Davenport and $2,500 each for Rock Island and Moline, contract to run for a period of 10 or 15 years.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

CONCORD, N. H.—We are officially advised that bids will be received until 1 p. m., June 2, for furnishing trap rock, estimated at $4,500. H. C. Hill is State Engr.

✚BOSTON, MASS.—Contracts have been awarded as follows for constructing edgestones, gutters and crosswalks in River St., to C. W. DOLLOFF & CO., 20 Central St., Boston, at $5,040; artificial stone sidewalks in Melville Ave., to the ADAMS POND CO., 79 Milk St., Boston, at $5,100; macadam roadway in Ardale St., to JOHN KELLY & CO., at $11,544; brick block paving in Geneva Ave., from Columbia Road to Bowdoin St., to CENTRAL CONSTRUCTION Co., at $23,810; tar macadam roadway in Wales St., between Harvard St. and Talbot Ave., to JAMES DOHERTY, at $5,140.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., May 24, for regulating, paving, curbing, laying sidewalks, etc.

NEW YORK, N. Y.—Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, May 23, for furnishing all the labor and materials required for regulating and repaving with bituminous concrete pavement, the roadways of Burger Ave., from Richmond Terrace to Henderson Ave., and other streets, together with all work incidental thereto.

*✚SENECA FALLS, N. Y.—We are officially advised that the contracts for paving State St. and East and West Bayard Sts., were awarded on May 4 to P. D. CONLEY, Ithaca, N. Y., at the following bids: State St., Corning brick, $8,852; Mack, $9,122; Metropolitan, $9,291; Clearfield, $9,021. East Bayard St., $26,678, $27,402, $27,855, $27,-131; West Bayard St., macadam, $17,063. Noted on April 6.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply until May 19, for widening Congress St., near its intersection with Ferry St. The following quantities are involved in the performance of the work: Rock and earth excavation, 1,800 cu. yds.; new granite curb, 360 lin. ft.; old curb, redressed and reset, 550 lin. ft.; granite block pavement relaid, 1,700 sq. ft.; concrete walk, 500 sq. yds.; construction of two catch basins and other items stated in the specifications. Specifications on file at office of Board of Contract and Supply and at office of City Engineer. J. M. Riley, Secy. of Bd.

WALDEN, N. Y.—Bids will be received by the Village Board of Trustees until May 19 for constructing 1⅓ miles of concrete sidewalks, 5 ft. wide.

BETHLEHEM, PA.—Bids will be received by John Morgan, Chmn. St. Com. of Boro. Council, until May 22 for 3,000 sq. yds. improved paving on Main St. R. E. Neumeyer is Boro. Engr.

*KINGSTON, PA.—Bids will be received by W. J. Williams, Boro. Secy., until noon, May 31, for 10,000 sq. yds. of brick paving upon a concrete foundation, 3,000 sq. yds. of Amiesite, Warrenite, or similar paving, and 8,700 lin. ft. of curbing. Young & Wintermute, Wilkes-Barre, are Boro. Engrs.

*STEELTON, PA.—Bids will be received until 7.30 p. m., June 5, by the Town Council, for sub-grading, paving and curbing of Second St., from Adams St. to Chestnut St. Charles D. Feidt is Boro. Secy. For details, see advertisement elsewhere in this issue.

*WILKES-BARRE, PA.—Bids will be received by W. J. Williams, Boro. Secy., until noon, May 31, for 6,000 sq. yds. of paving and 3,500 lin. ft. of curbing. Young & Wintermute are Boro. Engrs.

HARRISBURG, PA.—Bids will be received at the office of the State Highway Department in the Capitol Building, Harrisburg, until 2 p. m., May 24, for the construction of 10,467 ft. of road, extending from the Cherry Township line to forks of road at Colley Corners, in Colley Township. Plans and specifications can be seen at the office of the County Commissioners, Laporte, Pa., and at the office of the State Highway Department, Harrisburg.

PHILADELPHIA, PA.—Bids will be received by J. O. Clarke, Engr. of Valley Forge Park Comn., Crozer Bldg., Philadelphia, until noon, May 25, for grading, constructing Telford roads, macadam paths, drains, gutters, walls, etc. The work is estimated at $6,000.

PITTSBURG, PA.—Bids will be received by Joseph A. Armstrong, Dir. Pub. Wks., until 10 a. m., May 20, for grading, regrading, repaving and otherwise improving portions of Federal, Anderson, Morgan Sts., and the streets and alleys affected by the improvement of same. The work includes: Embankment, 62,500 cu. yds.; paving, all classes, 33,300 sq. yds.; curbing, 16,100 lin. ft.; concrete sidewalks, 139,000 sq. ft.; laying and relaying 6-in. to 16-in. water pipe, 10,900 lin. ft. Bids will also be received for grading, curbing and paving with brick, Belonda St. and others.

MOULTRIE, GA.—The Moultrie Chamber of Commerce is considering the construction of a highway from Moultrie, Ga., to Pensacola, Fla. The route has not yet been selected.

COLUMBUS, MISS.—Bids will be received by E. S. Donnell, Mayor, until noon, May 22, for constructing approximately 6,000 lin. ft. of concrete curb and gutter or granite curb and concrete gutter.

✚GREENVILLE, MISS.—A contract to lay 150,000 sq. ft. of granolith paving has been awarded to P. C. POWERS & SON, Memphis, Tenn.

HAZLEHURST, MISS.—Bids will be received by the Board of Supervisors of Copiah County, I. N. Ellis, Chn., until June 6, for constructing 50 miles of gravel highway in District No. 1. The George Co., Randolph Bldg., Memphis, Tenn., are Engrs.

MEMPHIS, TENN.—Bids will be received until May 23 for paving. The work consists of 175,000 cu. yds. excavation, 70,000 sq. yds. gravel pavement, 48,000 sq. yds. tar macadam pavement, 10,000 sq. yds. old stone pavement, 25,000 sq. yds. brick pavement, 70,000 sq. yds. asphalt, wood block, or bitulithic pavement. J. H. Weatherford is City Engr. and George C. Love, Comr. Sts., Bridges and Sewers.

✚LOUISVILLE, KY.—The contract for reconstructing the north side of Broadway, from Fourth to Campbell St., has been awarded to the S. S. SAXTON CO., at $20,739. The other bids were: American Standard Asphalt Co., $27,140; G. W. Gosnell, $24,618; Barber Asphalt Paving Co., $20,936.

[illegible]ON, OHIO.—**Bids** will be received by John W. Gauthier, Dir. Pub. Ser., until May 19 for paving portions of Cedar, South and Market Sts.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners, F. Driehs, Clk., until June 2 for improving Crookshank Road, Green Township, and repairing Indian Hill Ave., Columbia Township.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners of Cuyahoga County. John F. Goldenbogen, Clk., until 11 a. m., May 27, for furnishing material for the repair of W. Madison Road, Harvard Road, Berea Road, Pearl St. approach and Independence Road.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until noon, May 19, for grading, curbing, draining and paving Summit St., from Eleventh Ave. to Hudson St.

DAYTON, OHIO.—Bids will be received by the Board of County Commissioners, J. O. Donovan, Clk., until May 20, for grading and improving Cincinnati Pike from West Carrollton to Miamisburg, Miami Township.

EAST YOUNGSTOWN, OHIO.—Bids will be received by J. P. Carney, Clk. of Village Council, until noon, May 22, for grading Adams St., from Broad St. to Robinson Road.

PORTSMOUTH, OHIO.—Bids will be received by the Board of Public Service, H. F. Thompson, Clk., until May 19, for improving portions of Broadway, Eighth, Monroe, Offnere and Lawson Sts., by grading, curbing, constructing retaining walls, and paving with vitrified or hard-burned brick.

TOLEDO, OHIO.—Bids will be received by the Board of County Commissioners until May 29 for furnishing and delivering macadam and other material for repairing roads. Charles J. Sanzenbacher is County Audr.

WILLOUGHBY, OHIO.—Bids will be received by the Village Council until June 5 for grading, curbing and paving Euclid St. C. C. Jenkins is Village Clk.

✚YOUNGSTOWN, OHIO.—Contracts have been awarded as follows for repaving Market St.: To JAMES McCARRON, at $27,609; for grading the main entrance to Lincoln Park, to KENNEDY BROS., at $4,900.

KOKOMO, IND.—Bids will be received by the County Commissioners until June 6 for constructing about 9 miles of gravel roads in Jackson and Liberty Townships. A. B. Easterling is County Audr.

LOGANSPORT, IND.—Bids will be received by the County Commissioners until June 6 for constructing three macadam roads and one gravel road. J. E. Wallace is County Audr.

RUSHVILLE, IND.—Bids will be received by the County Commissioners until June 6 for constructing a macadam road in Jackson Township, 6,659 ft. long, and a macadam road in Posey and Jackson Townships, 7,523 ft. long. Jesse M. Stone is County Audr.

MARION, KAN.—Bids will be received by the Mayor until June 5 for paving, curbing and otherwise improving Third St.

WELLINGTON, KAN.—Bids will be received by the Board of City Commissioners until May 22 for paving, curbing and guttering Twelfth St., 9,289 sq. yds., and Harvey Ave., 16,401 sq. yds.

✚GREEN RIVER, WYO.—We are officially advised that a contract for constructing 18 blocks of cement sidewalks and 20 street crossings has been awarded to GEORGE [illegible]FORD, Evanston, Wyo.

GREAT FALLS, MONT.—Bids will be received by W. P. Wren, City Clk., until May 22 for constructing 70,000 sq. ft. of 5-ft. and 10,000 sq. ft. of 15-ft. concrete walks.

✚ST. LOUIS, MO.—We are officially advised that contracts for paving have been awarded as follows: Clay Ave., between Greer Ave. and Natural Bridge Road, with asphalt, G. A. HEMAN, $13,058; Ashland Ave., between Taylor and Cora Aves., asphalt, BARBER ASPHALT PAVING CO., $9,540; Greer Ave., between Taylor and Marcus Aves., asphalt, G. A. HEMAN, $12,410; Howard St., from Seventh St. to Blair Ave., asphalt, G. A. HEMAN, $23,202; 21st St., from Washington to Cass Aves., asphalt, G. A. HEMAN, $28,411; Michigan Ave., between Wyoming and Arsenal Sts., brick, G. EYERMANN & BRO., $10,040; Linton Ave., between Broadway and 21st St., brick, PERKINSON BROS. CONSTRUCTION CO., $16,089; California Ave., between Carolina St. and Chouteau Ave., brick, G. EYERMANN & BRO., $12,224; Idaho Ave., between Itaska and Virginia Aves., brick, G. ELERMANN & BRO., $8,040; Clara Ave., between North Market St. and St. Louis Ave., brick, HARRY F. HEMAN, $15,971; 15th St., from Carr St. to Cass Ave., brick, WM. H. REDEMEYER, $14,726; Osceola St., between Virginia and Grand Aves., bitulithic, GRANITE BITUMINOUS PAVING CO., $14,704; Wyoming St., between Oakhill Ave. and Morgan Ford Road, bitulithic, GRANITE BITUMINOUS PAVING CO., $17,912; Spalding Ave., between Clara and Goodfellow Aves., bitulithic, GRANITE BITUMINOUS PAVING CO., $12,384; 25th St., from Cass to St. Louis Aves., bitulithic, GRANITE BITUMINOUS PAVING CO., $34,733; Seventh St., from Market St. to Washington Ave., wood block, G. EYERMANN & BRO., $13,909; Pine St., from Fourth to Twelfth Sts., wood block, G. EYERMANN & BRO., $16,604; Benton St., from Broadway to 20th St., wood block, PARKER-WASHINGTON CO., W. Va., $45,918.

GALVESTON, TEX.—Bids will be received by John M. Murch, County Audr., until May 22, for improving the Seawell Boulevard, from 27th to 39th Sts., by taking up and relaying a portion of the brick pavement, curbing, etc.

SALT LAKE CITY, UTAH.—Bids will be received by H. G. McMillan, Clk. Bd. Pub. Wks., until May 26, for constructing cement sidewalks in Sidewalk Extension No. 129.

PORTLAND, ORE.—The City Council has decided to have the main business streets of the city paved at an estimated cost of $69,000. J. W. Morris is City Engr.

WHITTIER, CAL.—The City Engineer has been instructed to prepare plans and specifications for improving Philadelphia St., from Milton St. to the city limits, by asphalt paving. The distance is eight blocks and the estimated cost $33,000.

KINGSTON, ONT.—Bids will be received by H. B. R. Craig, City Engr., until May 20, for constructing 6,100 sq. yds. pavement and 2,276 lin. ft. curb and gutter.

BURLINGTON, ONT.—Bids will be received by O. T. Springer, Clk. and Treas., until May 25, for laying cement or concrete walks during the year 1911.

TORONTO, ONT.—Bids will be received by G. R. Geary, Mayor, Chn. Bd. of Control, until May 23, for the construction of a number of concrete walks and curbs. Specifications, etc., may be had on application to C. H. Rust, City Engr.

MOOSE JAW, SASK.—Bids will be received by W. F. Heal, City Clk., until 8.30 p. m., May 29, for laying approximately 41,093 sq. yds. of pavement, 206,061 sq. ft. of concrete sidewalks, 46,366 lin. ft. of curb and gutter, and 1,056 sq. yds. of wood block crossing. J. M. Wilson is City Engr.

MANUFACTURING PLANTS.

(✚*Denotes a contract awarded.*)

HOULTON, ME.—The Houlton Woolen Mills Co., at Houlton, is to begin at once on the erection of an addition to its plant which will more than double its capacity. The authorized capital stock of the company was increased some time ago to $100,000 for the purpose of making this enlargement.

PORTLAND, ME.—Another cold-storage plant will shortly be erected on Union Wharf. It will be used for meats, eggs, produce and other articles. The Union Packing & Refrigerating Co., a corporation capitalized at $2,000,000, which has a big plant at Montvale, Woburn, Mass., is to build the proposed plant, which is to be a branch. This concern is also negotiating for a site for an abattoir which will have a capacity of 1,000 animals.

HOLYOKE, MASS.—Plans were filed with the Building Inspector recently for an addition to the plant of the Walsh Steam Boiler Works on Mechanic St., the proposed building being 80 × 40 ft. and 30 ft. high of frame steel construction, and will be used as a structural steel and iron workshop.

✚E. H. FRIEDRICH, of Holyoke, has the contract for the plumbing, roofing and metal work and JAMES & MARRA the cut-stone work for the factory building to be erected on Dwight St., for the William Skinner Mfg. Co. CASPER RANGER is the general contractor. Noted April 13.

BOSTON, MASS.—The United Drug Co. plans an extensive addition to its plant in the Roxbury District. A building of six stories will be begun at once, and one story will be added to the present building. Louis K. Liggett is Pres.

ZOAR, MASS.—Frederick K. Daggett, Treas. of the Massachusetts Talc Co., of this place, has announced that the mill, power house, ore houses and warehouse of the company, which were recently destroyed by fire, will be rebuilt at once. The power house will be of fireproof concrete construction, 36 × 42 ft., the main mill 40 × 80 ft., the ore house, 40 × 150 ft., and the warehouse, 40 × 140 ft.

HARTFORD, CONN.—The Royal Typewriter Co. plans the erection of an additional factory building at its Hartford plant. The proposed building will front on New Park Ave. and be of brick, four stories in height, and 50 × 310 ft. on the ground.

NEW HAVEN, CONN.—J. O. Cloggston & Co., manufacturers of fancy paper boxes in the Fair Haven district, will start work about July 1 on the erection of a factory of wood and brick, two stories high and 175 × 60 ft. in size.

The United States Aeronautic Co., a $100,000 corporation, has been organized under a Connecticut charter to manufacture flying machines, and will erect a plant in New Haven, and in connection with it lay out an aerodome similar to the Aerodome de la Champagne at Rheims, France. The officers are: William C. Beers, Attorney, of New Haven, Pres. and Treas.; John W. Green, of Danbury, Vice-Pres.; Harrison S. Sheldon, of New Haven, Secy. and Asst. Treas.

NORWALK, CONN.—The recently incorporated Fairfield County Dairy Products Co., of Norwalk, is about to erect a factory of concrete block on property recently purchased on Prospect Ave. for the manufacture of condensed milk and other milk products used in the confectionery trade.

✚HARTFORD, CONN.—The general contract for the factory buildings for the Billings & Spencer Co., on Russ St., has been awarded to RICHARD JOHNSON, 91 Fern St., this city, who has sublet contracts as follows: Steel work, the BERLIN CONSTRUCTION CO., of Berlin, Conn.; concrete and carpenter work to CURTISS & DEAN, and W. L. SQUIRES, respectively, both of Hartford. One building, 40 × 70 ft., will be raised one story and there will be a new 3-story building, 40 × 113 ft., and a garage 47 × 60 ft., one story high, all of brick, mill construction. Ford, Buck & Sheldon, 60 Prospect St., are the Archs. & Engrs.

✚NEW BRITAIN, CONN.—The AMERICAN BRIDGE CO., 30 Church St., New York, N. Y., has been awarded the contract for the steel work and the ECONOMY CONCRETE STONE CO., of New Haven, Conn., will furnish the artificial stone for the 7-story factory to be erected at Center and East Main Sts., for Landers, Frary & Clark. The B. H. HIBBARD CO., of this city, are the general contractors, and Unkelbach & Perry, the Archs. Noted April 20.

BROOKLYN, N. Y.—Plans are nearing completion and bids will be received about June 1 for the construction of a 6-story reinforced concrete candy factory, 100 × 100 ft., at Washington and Park Aves., Brooklyn. Howard Chapman, 1123 Broadway, New York, is the Arch., and Wallace & Co., 16 Monroe St., New York, the owners. Estimated cost, $100,000.

GOUVERNEUR, N. Y.—The Reynolds Wire Co., of Dixon, Ill., will build a $75,000 wire factory here. Horace G. Reynolds is Pres.

NEW YORK, N. Y.—Official advices are to the effect that bids will be received soon by the Department of Public Charities, Michael J. Drummond, Comr., for the erection of a laundry building on Blackwell's Island. It will be a 3-story and cellar structure, 86 × 40 ft., and will cost approximately $100,000.

J. H. & C. K. Eagle, silk manufacturers, 454 Broome St., plan to erect a building at the southeast corner of Fourth Ave. and 21st St. The plot is 90 × 115 ft. and is at present occupied.

The National Biscuit Co. has leased from the Bradish Johnson estate for a long term of years the block bounded by Tenth Ave., 15th and 16th Sts., and Marginal St. The company is to build on the site a factory estimated to cost $1,000,000, which will provide employment for 2,000 additional hands. The property is separated by Tenth Ave. from the Biscuit Co.'s present plant, and is opposite the new Chelsea piers. It has an area of about 18 lots, measuring 200 ft. in Tenth Ave., 221.4 ft. in Marginal St., 183.7 ft. in 15th St., and 262.5 ft. in 16th St.

PENN YAN, N. Y.—The Universal Fibre Board Co., of Rochester, has just been incorporated with $200,000 capital. John A. Lewis, Pres. of the Fibre Box Co., of Rochester, John R. Taylor, of Rochester, and Lyman J. Baskin, also of Rochester, are interested. The company plans to establish a factory in Penn Yan.

SYRACUSE, N. Y.—The Benedict Mfg. Co., makers of portable electric lights, is planning an extensive addition to its factory here.

BUFFALO, N. Y.—The A[illegible]an Agricultural Chemical Co. will ere[illegible]orage warehouse and a power house, [illegible]ated to cost $50,000, at its plant on Ba[illegible] and Lyman Sts. and the Erie R. R.

✚The Wood & Brooks Co[illegible]anufacturers of piano keys and keyboar[illegible]s let a contract to the TURNER CON[illegible]CTION CO., 11 Broadway, New York, a[illegible]uffalo, for a 5-story concrete addition, 5[illegible] ft., with a 7-story tower to its plant [illegible]more Ave. and the New York Central R[illegible] North Buffalo.

ROCHESTER, N. Y.—The [illegible]wood Shoe Factory will build a 5-story [illegible] basement addition, 50 × 100 ft., to its [illegible] on South Goodman St.

✚TROY, N. Y.—The Mann[illegible] Peckham Paper Co. has let a contract [illegible] GEORGE B. PRESTON CONSTRUCTIO[illegible]., of Watervliet, for the erection of a [illegible]tory paper mill, 87 × 106 ft., at the foot [illegible]ypress St.

✚HILTON, N. J.—We are of[illegible]ly advised that the contract to erect a [illegible]house at Springfield Ave. and 43d St. [illegible] the Public Service Railway in the Hil[illegible]ection of South Orange Township has [illegible] awarded to F. D. HYDE, 90 West St., New York. The estimated cost is $150,000.

CHESTER, PA.—The Keyston[illegible]ype Foundry Co., Ninth and Spruce Sts., [illegible]ladelphia, has decided to locate in th[illegible]ity. Two squares of land have been pur[illegible]sed along the Pennsylvania Railroad fro[illegible]he Daniel Robinson estate by Joshua C. T[illegible]or, representing the company. The pr[illegible]ed structure will be three stories, of [illegible]ck, 60 × 240 ft.

✚FRANKFORD (Philadelphia [illegible]t-office), PA.—According to reports, HE[illegible] E. BATON, 1221 Arch St., Philadelphia, has the contract for a 2-story factory building, 49 × 178 ft., and alterations, repairs and rebuilding of the main building, power plant, etc., of Gordon Bros., Pierce and Orthodox Sts., Frankford, planned by Stearns & Castor, Archs, Stephen Girard Bldg. The plant was damaged by fire some time ago.

ERIE, PA.—Plans are nearing completion in the office of Harris & Richards for building No. 14 of the new plant under erection at Erie for the Pennsylvania General Electric Co. This structure will be of brick and reinforced concrete, five stories high, 75 × 400 ft.

MIDLAND, PA.—The Crucible Steel Co. of America is preparing to expend $8,000,000 in enlarging the former plant of the Midland Steel Co., at Midland, according to press reports. Preparations are being made to develop 200 acres adjoining the plant for erecting residences for the employees.

PHILADELPHIA, PA.—The Philadelphia Coppersmithing Co., 119 Florist St., is having plans prepared for a 1-story brick and steel erecting shop, 61 × 133 ft., to be built at 222 to 226 North Front St.

TRAFFORD CITY, PA.—Plans are being completed by Prack & Perrine, Engrs., Frick Bldg. Annex, Pittsburg, and bids will soon be received for the construction of a building to form part of the plant of the foundry interests of the Westinghouse Electric & Mfg. Co., at Trafford City. The structure is to be for the pattern shop of the plant, and calls for a building 300 ft. long and 3[illegible] ft. wide and four stories high. It will be constructed of steel, brick and reinforced concrete, and will be absolutely fireproof. In the construction of this building, between 800 and 1,000 tons of structural steel will be used, which will form a part of the reinforced concrete material, according to reports.

✚PHILADELPHIA, PA.—CRAMP & CO., Commonwealth Bldg., have the contract for the building at Beach and Palmer Sts., to be built for the American Can Co.

✚McLAUGHLIN BROS., 521 St. James St., have a contract for a 5-story factory, 63 × 133 ft., to be built at the northwest corner of Fifth and Locust Sts. for David Weber & Co. The cost will be $40,000.

✚The P. HAIBACH CONTRACTING CO., 26th St. and Thompson Sts., has a contract to erect a 2-story factory, 160 × 37 ft., on 25th St., south of Diamond, for the Standard Dental Mfg. Co. The cost will be $20,000.

As the site for a proposed factory, the Adams & Westlake Co., manufacturers of railroad and ship hardware and supplies, has purchased from William B. Margerum his property at 2202 Ontario St., extending to Bellevue St. M. Ward Easby, Engr., Crozer Bldg., has been commissioned to prepare plans for the structure.

BALTIMORE, MD.—The Baltimore Machine Products Co. has been incorporated with $90,000 capital stock to manufacture electrical mechanical instruments and cabinet work. It is a continuation of the Viaduct Electric Co. The officers are: Arthur P. Gorman, Jr., Union Trust Bldg., Pres.; Edmund C. Mayo, Vice-Pres. and Mgr.; William R. Baeckson, Secy.; and Conway S. Hodges, Treas.

The Electro-Clock Co., 115 Mercer St., has elected the following officers: F. P. Bassett, Pres.; A. J. Woodworth, of Sparrows Point, Md., Vice-Pres.; Sidney C. Vincent, Secy. and Mgr.; J. G. Johannesen, Treas. It plans to establish a manufacturing plant.

✚EDWARD PILERT, 2317 Edmondson Ave., has been awarded the contract to build a plant for the Baltimore Siegwart Beam Co., to cost about $10,000. The proposed structure will be erected on the north side of Hoffman's Lane, near the Western Maryland Railway. According to the plans prepared by J. E. Laferty, Arch., 11 East Pleasant St., the building will be of brick and stone and measure 56 × 155 ft.

HIGHLANDTOWN (Baltimore post-office), MD.—Plans are under way for the building of a structural iron and steel works for the Boston Iron & Metal Co. on First Ave., between First and Seconds Sts. The site was recently bought by the company from Frank A. Furst for $12,000. It comprises about one and a half acres. According to the tentative plans, the proposed building will be of concrete, brick and stone, and will cost $50,000.

CURTIS BAY (Baltimore post-office), MD.—The Atlantic Fertilizer Co. will expand. Plans for an addition to its plant at Curtis Bay are being drawn which will be one story high, extend 35 ft. in the air. It is to be of concrete, brick and frame, with slag roof and reinforced concrete foundation, and will be used for the storage of fertilizer and by-products. The B. F. Bennett Building Co., Pumping Station South, is figuring.

DANVILLE, VA.—The Danville Ice Co. has been incorporated with $300,000 capital stock, and the following officers: D. A. Overby, Pres.; R. L. Dibrell, Vice-Pres.; W. W. Williamson, Secy. and Treas. An ice plant is to be established.

SABRATON, W. VA.—The plans for the shops for the Morgantown & Kingwood Railroad Co. at Sabraton, have been approved. The company will ask for bids for the construction of the shops soon. J. K. Monroe, of Kingwood, is Ch. Engr. Noted on April 6 under "Kingwood, W. Va."

BLAIRS, S. C.—A company is to be incorporated under the name of the Blairs Cottonseed Fertilizer & Mercantile Co., for the purpose of establishing a fertilizer plant and cottonseed-oil mill. The incorporators are: D. M. [illegible] and John T. Rogsdale, of Greenville, S. C.

LUMBER, S. C.—It is reported that the William McKeithan Lumber Co., of Lynchburg, Va., will rebuild, at an estimated cost of $9[illegible], its plant recently burned at Lumber. It will have a daily capacity of 70,000 ft. of lumber, and will include a double-band saw-mill building, 56 × 160 ft., with concrete floors and metal roof. Bids are wanted on a 36-in. smokestack, 80 to 90 ft. long, and on V-crimped galvanized iron roofing.

SPARTANBURG, S. C.—The Southern Gasoline Engine Co., recently incorporated with $15,000 capital stock, will establish a plant for the manufacture of gasoline engines, ranging from 1½ HP. to 60 HP. W. D. Wilcox, of Spartanburg, W. E. Glenn and William F. Robinson, both of Charlotte, N. C., are the incorporators.

AMERICUS, GA.—The Ware Progress Co. is being incorporated with a capital stock of $100,000 for the purpose of establishing a cannery with a daily capacity of 2,500 cans. Walter J. Ware, of Dayton, Ohio, will be Pres.

✚PELHAM, GA.—The Pelham Phosphate Co. will erect a plant with a yearly capacity of about 15,000 tons of acid phosphate. Peter S. Gilchrist, of Charlotte, N. C., is Arch., and W. T. JAY & CO., Shellman, Ga., the contractors. J. L. Hand is Pres. and Mgr.; H. L. McDonald, Vice-Pres.; and J. W. Parker, Secy.-Treas.

TAYLORVILLE, FLA.—The Edge-Dowling Lumber Co. plans to expend $100,000 on a plant which will include a 50,000-ft. daily capacity circular-saw mill, and 25,000-ft. daily capacity planing mill. E. E. Edge is Pres.

SHREVEPORT, LA.—The Caddo Oil Refiner will construct a plant at this city. J. B. Atkins, of Shreveport, is Pres. The company is capitalized at $100,000. Work will begin at once.

The Shreveport Co-Operative Window Glass Co. will establish a 54-blower glass factory here. August Boelinger, formerly of Brookville, Pa., is Pres. of the company. Estimated cost, $100,000.

✚CHATTANOOGA, TENN.—The contract to build a plant, with a daily capacity of 40,000 ft. of lumber for the McLean Lumber Co. has been awarded to the CONVERSE BRIDGE CO., of Chattanooga. It will be a steel and concrete mill-constructed building, 40 × 110 ft. Mill machinery will include single-cutting, an 8-ft. band mill for 12-in. saws, a heavy log carriage with steam set works, 12-in. shotgun feed, extra heavy 60-in. gang edger, heavy drop-saw trimmer, hog for grinding edgings, with slasher, transfers, live rolls, etc. This equipment will be furnished by CHATTANOOGA MACHINERY CO., of Chattanooga, and engines are being furnished by WHELAND MACHINE WORKS, of Chattanooga.

✚BELLEVUE, OHIO.—The Ohio Cultivator Co. has let the contract to build a 4-story reinforced concrete factory building, 120 ft. sq. to the CHICAGO UNIT CONSTRUCTION CO., 111 Dearborn St., Chicago, Ill.

CLEVELAND, OHIO.—The Sunshine Cloak & Suit Co. and M. T. Silver & Co. have purchased the entire frontage of 200 ft. on the south side of Superior Ave., between 23d and 24th Sts. They will erect a uniform building with a party wall dividing the plants to house their respective industries. The structure will cost $250,000. These two concerns employ over 1,000 hands.

S. KORACH & Co., manufacturers of skirts, have purchased a site, 129 × 150 ft. on the north side of Superior Ave. between 23d and 24th Sts. For the purpose of erecting a plant to cost $100,000, it is reported.

FRANKLIN, OHIO.—A big paper plant to cost about $100,000, will be built at Franklin by John J. Maloney, of Hamilton, according to plans completed by P. S. Hughes, Arch., of Cincinnati. The factory will be known as the Franklin Coated Paper Co., which was recently incorporated. Mr. Maloney will be the Pres. The main plan will be 99 × 360 ft. and there will be a power-house 40 × 80 ft.

HAMILTON, OHIO.—The Water-proof Paper & Board Co., of Cincinnati, was recently granted authority by the Ohio Secretary of State to increase its capital stock from $75,000 to $390,000. The company plans to build or acquire a mill in the vicinity of Hamilton. Other improvements will be made in the Cincinnati plant of the company. The officers of the company are W. M. Stro[illegible]ge, S. M. Ramsey, Vice Pres., and Treas., J. W. Wilshire, Secy.

HUNTINGTON, IND.—Plans are being prepared for construction of a factory building in this city by Dingee & Dingee, of Evanston, Ill. Albert Binneman is Local Ma[illegible]

LAWRENCEBURG, IND.—The First National Banking & Deposit Co. is planning to ask for bids for remodeling and extending the Ohio County canning plant.

INDIANAPOLIS, IND.—The John J. Giesen Brewing Co., recently incorporated with a capital of $200,000, will ask for bids for the erection and equipment of a brewery plant as soon as plans ars completed. John J. Gieson, Thomas Meeker and Lewis Domb are Directors.

SOUTH BEND, IND.—Plans are being prepared on which bids will be asked by the Butz Fruit & Cold Storage Co. for the construction of an ice plant and storage building at the corner of Taylor and South St. Estimated cost, $175,000. The building will be of concrete construction.

Bids will be asked as soon as plans are completed, by the Muessel Brewing Co., for the remodeling and enlarging of the brewing plant. The capacity of the plant will be increased from a 40,000 to 125,000 bbls.

BATTLE CREEK, MICH.—Plans are being prepared by M. I. Moorehouse, Arch., 343 South Dearborn St., Chicago, for a reinforced paper manufacturing plant to be erected at a cost of about $200,000, by the Michigan Carbon Co., of Battle Creek.

BATTLE CREEK, MICH.—M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., is preparing plans for a $100,000 paper mill, the main building to be three stories high, 75 × 110 ft., power house 60 × 100 ft., engine house 60 × 75 ft., for the Michigan Carbon Co., of Battle Creek.

DETROIT, MICH.—The Kerwin Machine Co. has been organized, with a capitalization of $100,000. F. W. Chathom, 742 Lincoln Ave., is interested. The company will erect a factory soon.

Harley & Atcheson, Bowles Bldg., are preparing plans and will soon receive estimates on a new dairy building, 200 × 90 ft., for the Michigan State Fair Association. It will be of steel and stone construction, with a concrete dome. Cost, $40,000.

GRAND RAPIDS, MICH.—John H. Caulfield, 110 Sheldon St., is having plans prepared for a 2-story factory building, 40 × 320 ft. It will be of reinforced concrete construction, and will cost $50,000. The Terrell Equipment Co. will lease the building.

PORT HURON, MICH.—J. Erb, White Bldg. is preparing plans for a 6-story factory, 102 × 34 ft. for E. B. Mulford & Co., of Port Huron. The building is to be of brick and structural iron construction. Cost, $100,000.

WELLS, MICH.—The Stephenson Charcoal Iron Co., with a capital of $200,000, has been incorporated at Marinette, Wis., by U. S. Senator Isaac Stephenson, G. T. Stephenson, Charles Schaeffer, Horace A. J. Upham, C. W. Kates and R. W. MacLean, to establish a blast furnace at Wells, a suburb of Escanaba. Construction work will begin about June 1 and the plant will be ready Jan. 1. G. T. Stephenson and C. W. Schaefer, of Wells, may be addressed for further information.

CHICAGO, ILL.—Max L. Brede, Vice Pres. of Albert Pick & Co., 199 Randolph St., has purchased a site at Calumet and 40th Sts. and will erect a 3-story factory building at a cost of about $100,000.

The International Harvester Co., Harvester Bldg., Chicago, has completed all arrangements for the erection of a 1-story reinforced concrete machine shop to be erected at a cost of about $75,000, as an extension of the new tractor plant at 2600 Marshall Boulevard. It is also making arrangements for the erection of a 6-story and basement reinforced concrete machine shop to replace a couple of old structures of the Deering plant at Fullerton & Clybourn Aves.

John Boylston, Secy and Treas. of the Western Kieley Steam Specialty Co., 66 West Lake St., has purchased the property at 116-122 West Illinois St., between Clark and LaSalle Sts., and intends to improve same with modern factory building, to cost about $50,000.

✚GALVA, ILL.—Contracts for the erection of the foundry building for the Hayes Pump & Planter Co., of Galva. Raeder & Wood, Archts. Great Northern Bldg., Chicago, have been let as follows: General contract to the GEORGE W. STILES CONSTRUCTION CO., of Chicago; steel to the MORAVA CONSTRUCTION CO., 204 Dearborn St., Chicago; steel sash to DAVID LUPTON'S SONS CO., of Philadelphia, Pa.; cupola to the NORTHERN ENGINEERING WORKS, of Detroit, and cupola elevator to the Otis Elevator Co., 9 Jackson Boulevard, Chicago.

HAWTHORNE, ILL.—Bids will be received about May 22 by the Northwestern Stove Repair Co., 233 West 12th St., Chicago, for the erection of a factory at Hawthorne.

✚STERLING, ILL.—The general contract for the Lawrence Bros. warehouse and shop building has been let to RUHL CONSTRUCTION Co., of Chicago. Steel to WENDNAGEL & CO., 600 W. 22d St., Chicago. Figures are now being taken on metal sash. Raeder & Wood, 20 W. Jackson Boulevard, Chicago, are the Archs.

GREEN BAY, WIS.—William J. Hess and associates have leased the former plant of the Green Bay Box & Lumber Co. and propose to remodel it into a works for the production of castings, machinery, structural iron and steel and boilers.

KENOSHA, WIS.—The Thomas B. Jeffery Co., automobile manufacturers, is having plans prepared for the erection of a drop forge shop and a car finishing department, 60 × 200 ft.

MANITOWOC, WIS.—The Aluminum Goods Mfg. Co. will receive bids until May 20 for the construction of the first unit of several large extensions planned this year. It will be a manufacturing building 45 × 300 ft. three stories high, of fire-proof construction. The next unit will be a power-house equipped for producing 300 hp. with a Corliss engine and generator to furnish electric drive by the group system. George Vits, of Manitowoc, is Pres. Noted April 27.

✚MILWAUKEE, WIS.—J. E. Friend has awarded contracts for the erection of a manufacturing building for the Middleton Mfg. Co., on Broadway, near Michigan St., as follows: Carpentry, W. G. WILLIAMS, 352 Jackson St., Milwaukee; steel and iron work, WORDEN-ALLEN CO., Milwaukee; mason and concrete, FULDNER CONSTRUCTION CO., Milwaukee; plumbing, L. R. FRIEND. It will be six stories high, of reinforced concrete, steel and brick construction, and cost $65,000.

The Northwestern Malleable Iron Co. will erect a $40,000 shipping and warehouse building on Park St., near 13th Ave. The building is to be two stories high, 196 × 83 ft.

OSHKOSH, WIS.—The Oshkosh Brewing Co. is contemplating the erection of an addition, to cost $50,000.

A co-operative brewery company is being organized by William Kargus among Oshkosh saloonkeepers, with a capital of $100,000 to establish a brewing plant here, with a capacity of 20,000 bbls annually.

✚The Everhart-Delaney Co., recently incorporated for $150,000, will erect a drop forging shop, 90 × 40 ft. with a saw-tooth roof, one story high, and is making plans for several other buildings to be erected later in the year. The general contract for the construction of the drop forging plant has been awarded to the MILWAUKEE BRIDGE CO., of Milwaukee. The concrete contract has been sub-let to PETER RASMUSSEN, of Oshkosh.

PALMYRA, WIS.—O. C. Uehling, Arch., of Milwaukee, is preparing plans for a $15,000 plant for the Star Malt & Grain Co. to be erected here. It will be four stories high, 50 × 100 ft. of concrete and brick construction.

RACINE, WIS.—The Holbrook-Armstrong Iron Co., which recently increased its capital from $100,000 to $300,000, is contemplating the construction of a $50,000 addition.

MIDWAY, MINN.—The Waterman-Waterbury Co., farm implement manufacturers, has purchased a site in the Midway District for a $100,000 plant to be erected soon. The ground is a 20-acre tract and has a 400 ft. frontage on University Ave., extending back three blocks to Wabash Ave.

ST. LOUIS, MO.—Bids are being received for the erection of three buildings for the Mississippi Glass Co. at St Louis to cost about $60,000.

An automobile factory is to be built on ground brought recently on Laclede Ave., by the Dorris Motor Car Co. A plot 200 ft. front on Laclede, south frontage, beginning 100 ft. west of Sarah St., was acquired by the Dorris Co. The total consideration for the ground was $45,000. The Dorris factory is now located opposite the new site, at Sarah and Forest Park Boulevard. A plant to cost $250,000 is to be erected. H. B. Krenning and G. P. Dorris are officers.

ELGIN, TEX.—The Central Mfg. Co., which has taken over the brick plant and clay deposit of the Prewitt Brick Co., near here, will enlarge the works and expand the business in other respects.

FLATONIA, TEX.—The Elkins Mattress Mfg. Co., of El Paso, will install a mattress factory here. J. L. Elkins is at the head of the project.

FORT WORTH, TEX.—E. B. Webster is formulating plans for the organization of a company to build a cotton mill, it is stated.

HOUSTON, TEX.—The Kansas City Structural Steel Co., of Kansas City, Mo., has formed a subsidiary company in Texas, with a capital stock of $100,000, and will build a structural steel plant in Houston to supply the southwestern territory. Howard A. Fitch is Pres.

TONOPAH, NEV.—According to reports, the Tonopah Belmont Mining Co., plans to construct a 450-ton mill at the new Belmont shaft. Clyde A. Heller, has recently been elected President to succeed Richard T. Park, resigned.

BISBIE, ARIZ.—Otto P. Kroeger has organized a company with a capital stock of $35,000, to erect a factory here and one at El Paso, Tex., for the manufacture of concrete houses and cement and concrete products, under Mr. Kroeger's patents.

✚LOS ANGELES, CAL.—Charles G. Ross, Grosse Bldg., has been awarded a contract for erecting a 2-story brick, factory building at Main and Date Sts., for the Lacy Mfg. Co., manufacturers of riveted pipe, tanks, etc.

NEWARK, CAL.—A company will be organized here to be known as the Newark Sheet Metal Co., and incorporated for $100,000 to erect a factory. The new company will succeed the J. T. Barry Co. About 100 men will be employed.

RICHMOND, CAL.—The San Pablo Ice Co. of Vallejo, will erect an ice plant here, to cost $35,000.

SAN DIEGO, CAL.—The Baker Machine Co., has purchased a site at India and Grape Sts., on which it will erect a machine shop.

BRANTFORD, ONT.—The Massey-Harris Co., are contemplating some substantial extensions to the plant in this city. A 3-story addition, 60 × 180 ft. to the storage quarters is one of the projected extensions.

HESPELER, ONT.—The A. B. Jardine Co., will build a moulding shop, 60 × 60 ft.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

✚CEMENT.—Brookline, Mass.—The contract for furnishing Portland cement has been awarded by the city to FULLER & SONS, 550 Western Ave., Brighton, Mass.

*DREDGING.—Boston, Mass.—Bids for dredging at Winthrop Harbor and Point Shirley will be received by the Board of Harbor and Land Commissioners, State House, Boston, until 2 p. m., May 19, 1911, for dredging about 14,500 cu. yds. of material to widen and deepen the channel in Winthrop Harbor leading to the wharves of the Winthrop Yacht Club and the U. S. Government; also 6,000 cu. yds. to make a channel to the landing at Point Shirley opposite the House at the Point Shirley Yacht Club. The dredging at Winthrop is to be to the depth of 8 ft. at mean low water and at Point Shirley to the depth of 6 ft. at mean low water. Information in regard to the work, may be obtained at the office of the Board, where plans and specifications may be seen.

SANITARY AND LOCKER BUILDING.—Boston, Mass.—Bids will be received until May 29 by the Park Commissioners for a brick sanitary and locker building in South Boston. Robert S. Peabody is Chn.

STEAMSHIP PIERS.—South Boston (Boston post-office), Mass.—H. L. Gilman, Consult. Engr., 39 Haverhill St., Boston, Mass., is preparing plans for steamship piers to be erected by the American Buildings Trust in South Boston, piers to be of steel and concrete construction, 1,200 ft. long, 300 ft. wide, of the most modern construction, with freight handling equipment, automatic sprinklers and other fire protective apparatus, rolling steel shutters, steel water tower 200 ft. high of 200,000 gallons capacity, metal windows and wired glass, the cost to be approximately $1,250,000 each. Plans will be ready soon for bids.

CEMENT.—Springfield, Mass.—Bids were received on April 25 by the city for furnishing cement to the Street and Sewer Departments. Contracts have been awarded as follows: To T. SHEA for supplying Lehigh and Sayler's cement at $1.79 per bbl., bags to be returned in good condition at 10 cts. each; to H. C. PUCER & CO., for furnishing Atlas cement at $1.83 per bbl., 10 cts. allowed for return of bags.

✚STONE JETTY.—Boston, Mass.—Bids were received on May 12 by the Board of Harbor and Land Commissioners for building a section of stone jetty at Scorton Harbor, East Sandwich: W. H. Conover, $3.21 per ton; WILLIAM SEARS and JAMES H. CONNOLLY, $3.10 per ton (awarded contract).

SEA WALL, ETC.—Fort Adams (Newport post-office), R. I.—Bids were received as follows on May 11 by Lieut. J. J. Thomas, Const. Q. M., U. S. A., Fort Adams, for the construction of a seawall, excavating, filling, etc., here: Seawall—R. L. Whipple & Co., 306 Main St., Worcester, Mass., $6,497 (concrete); Darling & Slade, Newport, R. I., $7,700 (concrete), $10,200 (rubble); Conners Bros. Co., Lowell, Mass., $13,500 and $20,500. Excavation—John F. Sullivan, Newport, R. I., Area A, $19,500; Area B, $18,000; Robert Wolfenden, Newport, Area A, $9,000; Area B, $4,989; Darling & Slade, $12,200 and $5,000; Conners Bros. Co., $23,000 and $9,800. Areas A and B—John F. Sullivan, $51,000; Darling & Slade, $16,700; Conners Bros. Co., $32,000.

*BREAKWATER.—Newport, R. I.—Bids will be received by Col. Frederic V. Abbot, Corps Engrs., U. S. A., until June 9, for the construction of a breakwater at Point Judith, R. I.

DREDGING.—Providence, R. I.—Bids for dredging Providence Harbor were opened on May 15, as follows by Col. Frederic V. Abbott, Corps Engrs., U. S. A., Newport, R. I.: (a) dredging per cu. yd.; (b) boulders; (c) totals: Eastern Dredging Co., Boston, Mass., (a) 27.3 cts., (b) $8, (c) $19,190; Charles M. Cole, Fall River, Mass., (a) 24.9 cts., (b) $8, (c) $17,510; J. S. Packard Dredging Co., Providence, R. I., (a) 26 cts., (b) $10, (c) $18,300; Coastwise Dredging Co., Norfolk, Va., (a) 25 cts., (b) $8, (c) $17,580.

*DREDGING.—New York, N. Y.—Bids will be received until May 26 by Col. W. M. Black Corps Engrs., U. S. A., Army Bldg., 39 Whitehall St., New York, for dredging in Saugerties Harbor, N. Y.

POSTS AND BOXES.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., May 25, for furnishing and delivering terminal posts and terminal boxes for fire alarm telegraph, Boro. Manhattan; and for furnishing and delivering terminal posts and terminal boxes for first alarm telegraph, Boro. Brooklyn.

METAL PARTITIONS.—New York, N. Y.—Bids will be received by the Board of Trustees of the College of the City of New York, 17 Lexington Ave., until noon, May 25, for installing metal fireproof partitions in the corridors of the College of the City of New York, 17 Lexington Ave.

FIRE-HOSE.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., May 26, for furnishing and delivering 3,500 ft. of 3½-in. rubber fire hose for fireboats, Boro. Manhattan and Richmond, and 1,500 ft. of 3½-in. rubber fire-hose for fireboats, Boro. Brooklyn.

BALCONIES.—New York, N. Y.—Bids will be received by John W. Brannan, Pres. Bd. Trustees of Bellevue and Allied Hospitals, until May 26 for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, etc., for the enlargement and enclosure of six balconies, Fordham Hospital, Crotona Ave. and Southern Boulevard, Boro. The Bronx.

STORAGE BUILDING.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., May 23, for furnishing all the labor and materials required for the erection and completion of a brick storage building for the general storehouse, to be located on the grounds of the New York City Home for the Aged and Infirm, Blackwells Island. Michael J. Drummond is Comr.

FILLING AND GRADING.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., May 23, for furnishing all the labor and material required for filling in and grading at Coney Island hospital site on Ocean Parkway, north of Coney Island Creek, Boro. Brooklyn.

STABLE.—New York, N. Y.—Bids will be received by W. H. Edwards, Comr. St. Cleaning, until noon, May 23, for furnishing all the labor and materials required for the building, construction and erection of plaster work, stable fittings, carriage lifts, scales, etc., for a stable on the southeast corner of Canal Ave. and East Third St. (Coney Island), Boro. Brooklyn.

FIRE ALARM SYSTEM—New York, N. Y. —Bids will be received by the President of the Board of Trustees of Bellevue and Allied Hospitals, until 3 p. m., May 26, for furnishing and installing complete fire alarm system in Harlem Hospital, situated Lenox Ave. and 136th St., Boro. Manhattan.

ZEBRA HOUSE—New York, N. Y.—Bids were received as follows on May 11 by the Park Board for the erection and completion of a zebra house in Bronx Park: Joseph Balabau, 2065 Ryer Ave., $25,181; Bang & Fitz Randolph, 34th St. and Broadway, $32,497; Cosgrove-Daly Co., 1968 Broadway, $27,799; Paul J. Exner, 55 East 20th St., $27,430; J. W. Fiske Iron Works, 56 Park Pl., $30,777; A. L. Guidone & Co., 162 East 23d St., $28,235; George Hildebrand, 38 Park Row, $29,347; A. V. Johnson & Co., 43 West 27th St., $27,995; Kelly & Kelley, Inc., 12th St. and Vernon Ave., Long Island City, N. Y., $31,365; Thomas McKeown, Inc., 103 Park Ave., $26,700; Masonry Construction Co., 136 Liberty St., $28,949; J. & L. Moreland Co., Inc., 1910 Park Ave., $31,830; John H. Parker Co., 315 Fourth Ave., $25,785; Charles H. Peckworth, 631 Hudson St., $26,246; H. C. Stone Construction Co., 221 Greenpoint Ave., Brooklyn, $27,200; The Marble Arch Co., 216th St. and Broadway, $29,260; William Werner, 657 Vanderbilt St., Brooklyn, New York, $32,478; Wexler & Nickisch, 103 Park Ave., $33,916. All bidders of New York unless otherwise stated.

STEEL FREIGHT SHED.—New York, N. Y. —Bids will be received by Calvin Tomkins, Comr. of Docks, until noon on May 25, for Contract No. 1279, for furnishing all the labor and materials required for building a new steel freight shed with appurtenances on the pier at the foot of 33d St. Boro. Brooklyn.

✚TOWER.—Buffalo, N. Y.—The contract has been awarded by the Frontier Elevator & Mill Co. to JAMES STEWART & CO., 279 Dearnborn St., Chicago, Ill., for a reinforced-concrete tower for elevating grain from boats, at $50,000.

✚CONCRETE DOCKS.—Niagara Falls, N. Y.—Two concrete docks each 200 ft. in length are to be built by the Niagara Falls Power Co. one each at the foot of Iroquois St. and Sugar St. on its industrial lands fronting on Niagara River, above the power-houses. BRAAS BROS CO., Niagara Falls, have received contract for the Iroquois St. dock and the READ-CODDINGTON CO. for the Sugar St. dock.

ROOFING WORK.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., May 29, for furnishing all the labor and materials required for roofing work on the Infants' Hospital and Wards 21-24 and 25-28, at the New York City Children's Hospital and Schools, Randalls Island, City of New York.

SIGNAL SYSTEM, ETC.—Passaic, N. J. —Bids will be received until May 19 by the City Council addressed to Thomas R. Watson, City Clk., for furnishing and installing a police signal system, fire-alarm equipment and municipal telephone exchange for the city.

ROAD OIL, ETC.—Pittsburg, Pa.—Bids will be received until 10 a. m., May 19, by the County Commissioners at the office of R. J. Cunningham, County Controller, Pittsburg, for furnishing about 100,00 gallons of light asphalt road oil; 100,000 gallons of heavy asphalt road oil; 922,000 heavy brick block for the Crooked Run Road, to be delivered f. o. b. at cars at station or stations as shown on bidding schedule; two all-steel tank wagons of 600 gallons capacity; and for unloading and hauling brick block for the Crooked Run Road.

*EXCAVATION.—Slatington, Pa. — Ten miles of light work mostly side borrow, suitable for slips, dump carts, and casting, to let to small outfits. Averages 5,000 yds. to the mile. Apply to Macarthur Brothers Co., Slatington, Pa.

DREDGING.—Washington, D. C.—Bids were received as follows on May 15, by the Corps of Engineers, Washington, for dredging about 300,000 cu. yds. in the Potomac River: Sandford & Brooks Co., Baltimore, Md., 15.6 cts.; American Dredging Co., Philadelphia, 15.9 cts.; Atlantic, Gulf & Pacific Co., New York, 17.7 cts.

(Continued on page 243.)

CONTRACT PRICES.

*CATSKILL AQUEDUCT.—New York, N. Y.—Bids were received on May 16 by the Board of Water Supply, New York, N. Y., for the following:

Contract 63, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, 15 ft. inside diameter, and about 21,260 ft. long. From the northerly end of the work in Yonkers, about 200 ft. north of the New York City line, between Jerome and Mt. Vernon Aves., the tunnel line extends in a general southerly direction through the Borough of The Bronx, under Van Cortlandt Park and Jerome Park reservoir, and thence beneath the Old Croton Aqueduct and Aqueduct Ave. to Burnside Ave., near University Heights. Tunnel construction will be carried on through five shafts, spaced from 3,500 to 5,000 ft. apart, and varying in depth from 215 to 240 ft.

Contract 65, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, 15 ft., and 14 ft. inside diameter. From the northerly end of the work at Aqueduct and Burnside Aves., near University Heights, the tunnel line extends in a general southerly direction under Aqueduct and Lind Aves., in the Borough of The Bronx, to the crossing under the Harlem River at 167th St., near Highbridge, thence beneath Highbridge, St. Nicholas and Morningside Parks and connecting streets, in the Borough of Manhattan, to Central Park near Eighth Ave. and West 99th St. The work will be carried on through seven shafts, spaced from 2,500 to 5,100 ft. apart, and varying in depth from 200 to 475 ft.

Contract 66, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, varying from 14 ft. to 12 ft., inside diameter. From the northerly end of the work in Central Park, near Eighth Ave. and West 99th St., the tunnel line extends in a general southerly direction under Central Park, Sixth Ave. and Broadway to 14th St., in Union Square. The work will be carried on through six shafts, spaced from 2,300 to 4,550 ft. apart, and varying in depth from 200 to 250 ft.

Contract 67, for the construction of a portion of the city tunnel of the Catskill Aqueduct, a circular tunnel in rock, 12 ft and 11 ft. inside diameter. From the northerly end of the work in Union Square, at 14th St., the tunnel line extends in a general southerly direction through the Borough of Manhattan, under Fourth Ave., the Bowery, Delancey, Allen, Hester and Clinton Sts., thence beneath the East River to the foot of Bridge St., in the Borough of Brooklyn, and through this Borough under Bridge St. and Flatbush Ave. to the terminal shaft, Shaft 23, at Third Ave. and Schermerhorn St., and from Flatbush Ave. under Lafayette St. to the terminal shaft, Shaft 24, in Fort Greene Park. The work will be carried on through six shafts, spaced from 3,800 to 5,200 ft. apart, and varying in depth from 310 to 740 ft.

The contractors bidding on this work were as follows: (A) Pittsburg Contracting Co., Pittsburg, Pa.; (B) Mason & Hanger Co., Cornwall-on-Hudson, N. Y

tan Contracting Co., Boston

Pearson & Son, Inc., 507

York; (E) Grant Smith &

Rome, N. Y.; (F) Bradley

1 Madison Ave., New York;

Contracting Co., 60 Wall St

Keystone State Construction

vania Bldg., Philadelphia,

Gillespie Co., 50 Church St.,

Patrick McGovern, 6 Beac

Mass.; (K) United Engineeri

ing Co., 17 West 42d St.,

Holbrook, Cabott & Rollins

Park Ave., New York; (M)

tracting Co., 280 Broadway,

Winston & Co and Breuchau

New York; (P) MacArthur

Pine St., New York.

CATSKILL AQUEDUCT, PJRESSURE TUNNEL, NEW YORK CITY, CONTRACT 65.

		J.	F.	G.	I.	A.
20	lin. ft. sinking shaft 7 in earth	$225.00	$421.87	$300.00	$400.00	[illegible]
435	lin. ft. sinking shaft 11	225.00	421.87	300.00	440.00	300.00
2,090	lin. ft. sinking all shafts or portions, not otherwise specified	255.00	421.87	250.00	440.00	300.00
310,000	cu. yds. excavation of tunnel and drift	9.90	11.00	11.50	10.00	7.75
1,500	sq. yds. additional trimming in shafts tunnel and drainage drift	4.50	6.00	3.00	14.00	3.00
2,400,000	lbs. structural steel roof support	.03½	.03	.03	.04	.03
2,400,000	lbs. erecting structural steel roof support	.01	.01	.01½	.03	.01½
500	M. ft. B. M., temporary timbering	60.00	75.00	60.00	100.00	50.00
250,000	million ft. gals., pumping from shafts and tunnel during construction	.30	.50	.50	.30	.20
30,950	lin. ft. drainage channels for shafts, tunnels and drifts	1.40	1.30	4.00	2.00	1.50
2,350	lin. ft. forms for outer lining of all shafts	7.00	10.00	4.00	10.00	10.00
425	lin. ft. forms for inner lining of all drainage shafts	8.00	10.00	5.00	10.00	10.00
850	lin. ft. forms for lining risers	4.00	10.00	1.00	10.00	10.00
28,450	lin. ft. forms for lining tunnel and drainage drift	2.25	4.00	4.00	4.00	10.00
13,600	cu. yds. concrete masonry in shafts	8.00	10.00	10.00	12.00	8.00
120,000	cu. yds. concrete masonry in tunnel and drainage drift	8.00	8.00	10.50	8.00	8.00
2,000	cu. yds. excess concrete masonry in shafts, tunnel and drift	3.00	3.00	3.00	3.00	3.00
300	cu. yds. brick masonry in shaft, tunnel and drainage drift	18.00	25.00	16.00	15.00	15.00
9,000	cu. yds. dry packing in tunnel	3.00	4.00	3.00	2.50	3.00
20,500	sq. ft. drainage interlining in drainage shaft	.35	1.00	.30	.30	.30
200,000	lbs. steel interlining in risers	.06	.06	.07	.10	.06
60,000	lbs. steel interlining in and adjacent to shaft 11	.06	.06	.07	.10	.06
450	sq. ft. cutting shannels for water stops	2.00	6.00	3.00	3.00	1.00
1,000	lin. ft. drilling 1½-in. holes in rock or masonry	.45	.50	.25	.30	.25
3,000	lin. ft. drilling 1¾ to 2½-in. holes in rock or masonry	.60	.50	.30	.40	.50
40,000	lin. ft. steel pipe for grouting	.30	.25	.20	.30	.20
Plant and equipment for grouting		4,500.00	5,000.00	5,000.00	10,000.00	[illegible]
14	high-pressure air compressors for grouting	350.00	500.00	250.00	250.00	200.00
7	air stirring grouting machines	300.00	500.00	250.00	350.00	250.00
7	mechanically stirring grouting machines	300.00	500.00	400.00	500.00	100.00
50	grouting pads	60.00	100.00	50.00	100.00	12.00
8,000	connections for grouting	1.00	1.00	.60	3.00	.50
2,500	setting grouting pads	1.25	1.00	1.50	6.00	1.00
4,000	tons sand for grout	2.00	2.25	1.50	3.00	2.00
6,000	cu. yds. mixing and placing grout	5.00	5.00	4.00	9.00	1.00
7,200	cu. yds. earth excavation in open cut	2.50	5.00	2.25	4.00	2.00
3,300	cu. yds. rock excavation in open cut	5.00	7.00	4.00	5.00	1.00
5,500	cu. yds. refilling and embanking	.75	.50	.60	4.00	1.00
159	M. ft. B. M. timber and lumber	60.00	75.00	40.00	75.00	[illegible]
2,700	cu. yds. concrete masonry in open cut	8.50	10.00	10.00	15.00	6.50
250,000	bbls. Portland cement	1.45	1.60	1.80	2.00	1.35
160,000	lbs. reinforcing steel	.04	.04	.05	.06	.04
115,000	lbs. miscellaneous iron and steel	.08	.05	.06	.10	.06
30,000	lbs. galvanizing	.05	.02	.02	.03	.05
500,000	lbs. setting metal work furnished by the city	.02½	.03	.06	.07	.02
80	tons c.-i. pipe and specials	80.00	100.00	60.00	100.00	[illegible]
12	gates	100.00	150.00	125.00	1,000.00	75.00
8,000	lbs. bronze pipe and miscellaneous bronze	.75	1.00	.75	1.00	.50
2,000	lin. ft. vitrified pipe 20-in. and smaller	1.50	2.50	1.50	1.50	1.00
100	cu. yds. dry rubble masonry and paving	4.00	6.00	4.00	6.00	3.00
100	cu. yds. rubble masonry and paving in mortar	5.00	9.00	5.00	6.50	3.00
2,000	sq. yds. pavement	2.50	4.50	4.00	4.00	3.00
300	cu. yds. crushed stone and gravel	2.00	2.00	2.00	3.00	2.00
25	lin. ft. reinforced-concrete ladders	4.00	15.00	1.20	12.00	2.00
Office buildings (lump sum)		12,000.00	10,500.00	6,000.00	12,000.00	9,000.00
Locker houses (lump sum)		10,000.00	10,000.00	6,000.00	10,000.00	8,000.00
Restoration of parks (lump sum)		2,000.00	4,950.00	10,000.00	5,000.00	9,000.00
Totals		$5,775,393	$6,798,819	$6,872,255	$6,822,100	$5,[illegible]

CATSKILL AQUEDUCT, PRESSURE TUNNEL, NEW YORK CITY, CONTRACT 66.

		E.	F.	G.	I.	K.
Removing buildings (lump sum)		$1,000.00	$10,000.00	$15,000.00	$5,000.00	$1,000.00
20	lin. ft. sinking shaft 17 in earth	275.00	503.85	375.00	400.00	250.00
28	lin. ft. sinking shaft 18 in earth	275.00	503.85	375.00	400.00	250.00
405	lin. ft. sinking shaft 13 and portions of 18 in rock	330.00	503.85	360.00	500.00	400.00
815	lin. ft. sinking all shafts and portions of shafts not otherwise specified	330.00	503.85	360.00	490.00	400.00
218,000	cu. yds. excavation and tunnel drift	11.25	12.00	11.50	12.60	9.75
1,100	sq. yds. additional trimming in shafts, tunnel and drift	5.00	6.00	3.00	14.00	3.00
1,380,000	lbs. furnishing structural steel roof support	.03	.03	.03	.04	.03
1,380,000	lbs. erecting structural steel roof support	.01½	.01	.01½	.03	.01
325	M. ft. B. M. temporary timbering	70.00	75.00	60.00	100.00	50.00
100,000	million ft.-gals. pumping from shafts and tunnels during construcion	.25	.50	.50	.30	.25
24,465	lin. ft. drainage for shafts, tunnels and drifts	2.00	1.30	4.00	2.00	8.00
740	lin. ft. of forms for interlining shafts	8.00	10.00	4.00	10.00	10.00
840	lin. ft. of forms for outer and innel linings of section valve shafts	12.00	20.00	5.00	10.00	7.00
1,525	lin. ft. of forms for lining of steel risers	5.00	10.00	1.00	10.00	2.00
23,250	lin. ft. of forms for lining of tunnel and of drift at shaft 16	4.00	4.00	4.00	4.00	10.00
9,100	cu. yds. of concrete masonry in shafts	10.00	10.00	10.00	12.00	9.00
85,000	cu. yds. of concrete masonry in tunnel and drift	7.50	8.00	10.50	10.00	10.50
2,000	cu. yds. of excess concrete masonry in shafts, tunnel and drift	3.00	3.00	3.00	3.00	3.00
200	cu. yds. of brick masonry in shafts, tunnel and drift	25.00	25.00	16.00	15.00	15.00
6,100	cu. yds. dry packing in tunnel and drift	3.50	4.00	3.00	2.50	1.50
13,500	sq. ft. drainage interlining in section valve shafts	1.25	1.00	.30	.30	.25
365,000	lbs. steel interlining in risers	.08	.06	.08	.10	.08
155,000	lbs. steel interlining in tunnel and at section valves	.08	.06	.09	.10	.10
1,500	sq. ft. cutting channel for water-stops	2.00	6.00	3.00	3.00	1.50
1,000	lin. ft. drilling 1½-in. holes in rock or masonry	.40	.50	.25	.30	.40
3,000	lin. ft. drilling 1¾ to 2½-in. holes in rock or masonry	.50	.50	.30	.40	.50
30,000	lin. ft. steel pipe for grouting, etc	.30	.25	.20	.30	.26
Plant and equipment for grouting (lump sum)		5,000.00	5,000.00	5,000.00	9,000.00	6,000.00
12	high-pressure air compressors for grouting	300.00	500.00	250.00	250.00	250.00
6	air-stirring grouting machines	300.00	500.00	250.00	350.00	350.00
6	mechanical-stirring grouting machines	300.00	500.00	200.00	500.00	500.00
40	grouting pads	80.00	100.00	50.00	100.00	60.00
5,000	connections for grouting	1.75	1.00	.60	3.00	2.00
2,000	settings for grouting pads	1.00	1.00	1.50	6.00	1.00
3,500	tons of sand for grout	1.75	2.25	1.50	3.00	2.50
5,000	cu. yds. mixing and placing grout	10.00	5.00	4.00	9.00	2.00
12,500	cu. yds. earth excavation in open cut	2.00	5.00	2.40	4.00	3.00
5,000	cu. yds. rock excavation in open cut	4.00	7.00	4.50	5.00	6.00
12,000	cu. yds. refilling and embanking	1.00	.50	.60	4.00	1.00
250	M. ft. B. M. timber and lumber	60.00	75.00	40.00	75.00	50.00
2,000	cu. yds. concrete masonry in open cut	8.00	10.00	10.00	15.00	7.00
185,000	bbls. Portland cement	1.40	1.60	1.80	2.00	1.36
100,000	lbs. steel for reinforcing concrete	.05	.03	.05	.06	.04
125,000	lbs. miscellaneous iron and steel	.07	.05	.07	.10	.06
25,000	lbs. galvanizing	.05	.02	.02	.03	.04
800,000	lbs. setting metal work furnished by the city	.03	.03	.06	.07	.02½
60	tons c.-i. pipe and specials	100.00	100.00	60.00	100.00	[illegible]
600	lbs. bronze pipe and miscellaneous bronze	1.00	1.00	.75	1.00	1.00
4,000	lin. ft. vitrified pipe, 18-in. and smaller	1.00	2.25	1.25	1.25	.50
50	cu. yds. dry rubble masonry and paving	5.00	6.00	4.00	6.00	3.00
150	cu. yds. rubble masonry and paving in mortar	7.00	9.00	5.00	6.50	5.00
5,000	sq. yds. pavement	5.00	4.50	4.00	4.00	4.00
400	cu. yds. crushed stone and gravel	2.50	2.00	2.00	3.00	2.50
Section office buildings (lump sum)		5,000.00	7,000.00	4,000.00	8,000.00	3,[illegible]
Locker houses (lump sum)		8,000.00	7,500.00	6,000.00	7,500.00	10,[illegible]
Restoration of parks (lump sum)		10,000.00	5,850.00	10,000.00	5,000.00	10,[illegible]
Totals		$4,512,605	$5,028,686	$4,961,645	$5,550,005	$4,719,975

CATSKILL AQUEDUCT, PRESSURE TUNNEL, NEW YORK CITY, CONTRACT 63.

	A.	B.	C.	D.	E.	F.	G.	H.	I.
lin. ft. Shaft 1	$400.00	$335.00	$350.00	$300.00	$300.00	$522.22	$300.00	$230.00	$400.00
lin. ft. sinking Shaft 5 in earth	400.00	292.00	250.00	200.00	250.00	522.22	300.00	210.00	400.00
lin. ft. sinking upper portion of Shaft 3	400.00	330.00	250.00	300.00	250.00	522.22	300.00	300.00	400.00
lin. ft. sinking lower portion of Shaft 3	400.00	310.00	250.00	275.00	250.00	522.22	300.00	255.00	400.00
lin. ft. sinking all shafts or portions of shafts not otherwise included	400.00	310.00	250.00	285.00	300.00	522.22	300.00	220.00	400.00
lin. ft. refilling Shaft 1	10.00	10.00	6.00	20.00	15.00	25.00	10.00	15.00	50.00
lin. ft. drain tunnel from Shaft 3, complete	100.00	45.00	50.00	29.50	187.50	60.00	35.00	50.00	25.00
cu. yds. excavation of main and connection tunnels	8.00	8.30	11.50	10.00	8.48	10.00	11.00	8.48	10.00
cu. yds. additional trimming in shafts and tunnels	3.00	5.00	5.00	7.50	5.00	6.00	3.00	8.00	8.00
1,350 lbs. furnishing structural steel roof support	.03	.03	.04	.06	.03	.03	.03	.01	.00½
1,350 lbs. erecting structural steel roof support	.00½	.01	.01½	.01	.01½	.01	.01½	.01	.00½
M. ft. B. M. temporary timbering	50.00	60.00	70.00	70.00	65.00	75.00	60.00	40.00	40.00
million ft.-gals. pumping from shafts and tunnels during construction	.20	.30	.45	.60	.22½	.50	.50	.60	.30
lin. ft. drainage channels for shafts and tunnels	5.00	1.25	1.50	3.30	1.87½	1.30	3.50	2.00	2.00
lin. ft. forms for outer lining of shafts 3, 4 and 5	15.00	10.00	7.00	10.30	8.00	10.00	3.50	6.00	10.00
lin. ft. forms for lining of steel risers	3.00	4.50	5.00	4.40	4.00	10.00	1.00	4.00	10.00
lin. ft. forms for lining of main tunnels and Shaft 3 connection tunnel	9.00	4.00	3.25	6.00	4.00	4.00	3.50	3.00	4.00
cu. yds. concrete masonry in shafts	10.00	9.50	8.75	8.00	9.00	10.00	8.50	7.50	12.00
cu. yds. concrete masonry in main tunnel and Shaft 3 connection tunnel	8.00	6.75	8.75	8.00	6.50	8.00	9.50	8.40	7.00
cu. yds. excess concrete masonry in shafts and tunnels	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
cu. yds. brick masonry in shafts and tunnels	15.00	16.00	25.00	20.00	20.00	25.00	16.00	20.00	15.00
cu. yds. dry-packing in tunnels	3.00	2.50	3.00	3.00	2.75	4.00	3.00	2.50	2.50
lbs. steel interlining in risers	.06	.10	.05	.09	.08	.06	.06½	.06	.10
Venturi meter fittings (lump sum)	13,000.00	16,000.00	13,000.00	15,000.00	15,000.00	20,000.00	25,000.00	22,000.00	15,000.00
lin. ft. drilling 1½-in. holes in rock or masonry	.25	.40	.50	.56	.40	.50	.25	.40	.30
lin. ft. drilling 1¾-in. holes in rock or masonry	.50	.60	.65	.75	.50	.50	.30	.50	.40
lin ft. steel pipe for grouting, etc.	.20	.20	.35	.45	.30	.25	.20	.30	.30
Plant and equipment for grouting (lump sum)	5,000.00	4,000.00	5,000.00	7,300.00	5,000.00	5,000.00	4,000.00	5,000.00	8,000.00
high-pressure air compressors for grouting	200.00	300.00	500.00	440.00	300.00	300.00	250.00	500.00	250.00
5 air-stirring grouting machines	250.00	300.00	500.00	650.00	300.00	500.00	250.00	200.00	350.00
5 mechanically-stirring grouting machines	400.00	600.00	500.00	650.00	300.00	500.00	400.00	400.00	500.00
grouting pads	50.00	75.00	75.00	100.00	80.00	100.00	50.00	75.00	100.00
5,000 making connections for grouting	.50	1.00	1.00	1.50	1.75	1.00	.60	1.00	3.00
1,500 setting grouting pads	1.00	1.50	1.00	1.50	1.00	1.00	1.40	2.00	6.00
3,500 tons sand for grout	2.00	3.25	1.75	4.25	1.75	2.25	1.50	2.00	3.00
5,000 cu. yds. mixing and placing grout	1.00	5.00	6.00	8.50	8.00	5.00	3.60	5.00	9.00
9,000 cu. yds. earth excavation in open cut	1.50	3.00	2.50	2.50	1.00	5.00	2.00	2.00	4.00
4,700 cu. yds. rock excavation in open cut	3.00	4.00	5.00	5.00	1.60	7.00	4.00	3.00	5.00
9,000 cu. yds. refilling and embanking	.50	.50	.75	1.50	.57	.50	.60	.50	3.00
150 M. ft. B. M. timber and lumber	55.00	65.00	50.00	80.00	55.00	75.00	40.00	40.00	75.00
1,700 cu. yds. concrete masonry in open cut	6.50	10.00	8.50	7.25	6.25	10.00	9.00	6.50	15.00
180,000 lbs. Portland cement	1.60	1.50	1.55	1.80	1.40	1.60	1.80	1.55	2.00
70,000 lbs. steel for reinforcing	.04	.05	.04½	.05	.05	.04	.05	.03	.06
120,000 lbs. miscellaneous iron and steel	.10	.07	.10	.08	.07	.05	.06	.08	.10
30,000 lbs. galvanizing	.10	.04	.07	.04	.05	.02	.02	.04	.03
410,000 lbs. setting metal-work furnished by the city	.02	.02	.02	.01	.02½	.03	.06	.05	.07
150 tons c.-i. pipe and specials	100.00	100.00	90.00	90.00	95.00	100.00	60.00	75.00	100.00
1,000 lbs. bronze pipe and miscellaneous bronze	.50	.65	.75	.80	.82½	1.00	.75	.50	1.00
2,500 lin. ft. vitrified pipe, 15-in. and smaller	1.00	1.25	1.50	.85	.75	2.00	1.00	1.00	1.00
100 cu. yds. dry rubble masonry and paving	3.00	4.00	5.00	5.75	3.25	6.00	4.00	2.50	6.00
100 cu. yds. rubble masonry and paving in mortar	3.00	5.00	6.00	7.25	5.50	9.00	5.00	3.00	6.50
300 cu. yds. crushed stone and gravel	3.00	2.25	3.00	5.50	2.00	2.00	2.00	2.50	3.00
Section office buildings (lump sum)	5,000.00	5,000.00	8,000.00	6,000.00	3,600.00	7,000.00	4,000.00	6,000.00	8,000.00
Locker houses (lump sum)	3,000.00	6,000.00	8,400.00	6,500.00	3,750.00	7,500.00	4,500.00	6,000.00	7,500.00
Totals	$3,990,380	$3,709,372	$4,627,360	$4,433,021	$3,775,552	$4,546,052	$4,639,710	$3,782,760	$4,493,540

CATSKILL AQUEDUCT, PRESSURE TUNNEL, NEW YORK CITY, CONTRACT 67

	K.	L.	M.	I.	O.	P.	F.	G.
Removing buildings (lump sum)	$1.00	$5,000.00	$10,000.00	$5,000.00	$2,500.00	$25,000.00	$25,000.00	$25,000.00
42 lin. ft. excavation of shaft 19, in earth	350.00	466.00	425.00	1,500.00	500.00	1,150.00	941.85	300.00
95 lin. ft. excavation of shaft 20, in earth	450.00	471.00	450.00	750.00	500.00	510.00	941.85	500.00
35 lin. ft. excavation of shaft 21, in earth	1,000.00	1,082.00	620.00	2,500.00	500.00	2,200.00	941.85	1,200.00
93 lin. ft. excavation of shaft 22, in earth	440.00	456.00	440.00	750.00	500.00	535.00	941.85	500.00
120 lin. ft. excavation of shaft 23, in earth	750.00	735.00	495.00	750.00	500.00	535.00	941.85	700.00
100 lin. ft. excavation of shaft 24, in earth	650.00	614.00	485.00	750.00	500.00	520.00	941.85	400.00
1,500 lin. ft. excavation of shafts 19, 20 and 22, in rock	350.00	354.00	555.00	475.00	500.00	400.00	445.17	400.00
705 lin. ft. excavation of shaft 21, in rock	400.00	426.00	620.00	500.00	500.00	800.00	445.17	400.00
215 lin. ft. excavation of upper portions of shafts 23 and 24, in rock	350.00	423.00	565.00	500.00	400.00	650.00	445.17	400.00
150 lin. ft excavation of lower portions of shafts 23 and 24, in rock	360.00	393.00	580.00	500.00	500.00	700.00	445.17	400.00
157,000 cu. yds. excavation of tunnels and drifts	10.20	10.70	11.00	12.00	12.90	13.50	13.00	16.00
1,500 sq. yds. additional trimming in shafts, tunnels and drifts	3.00	4.00	5.00	14.00	3.10	8.00	6.00	3.00
1,600,000 lbs. furnishing structural steel roof support	.04	.04	.04	.04	.05	.04	.03	.04
1,600,000 lbs. erecting structural steel roof support	.01	.02½	.03	.03	.01	.02	.01	.02
290 M. ft. B. M. temporary timbering	50.00	70.00	45.00	100.00	80.00	80.00	75.00	70.00
500,000 million ft. gals., pumping from shafts and tunnels during construction	.40	.35	.30	.30	1.25	.80	.40	.50
21,350 lin. ft. of drainage shafts, tunnels and drifts	8.00	2.50	2.00	2.00	2.00	2.00	1.30	4.00
2,900 lin. ft. of forms for outer lining of all shafts	10.00	7.50	10.00	10.00	5.00	10.00	10.00	4.00
730 lin. ft. of forms for inner lining of all shafts	4.00	8.75	8.00	10.00	5.00	10.00	10.00	4.00
2,350 lin. ft. of forms for lining risers	2.00	2.00	5.00	10.00	5.00	5.00	10.00	1.20
21,320 lin. ft. of tunnels and drifts	10.00	3.75	3.00	4.00	5.00	4.25	4.00	5.00
26,000 cu. yds. concrete masonry in shafts	9.00	10.85	9.50	15.00	11.50	10.00	10.00	10.00
70,000 cu. yds. concrete masonry in tunnels and drifts	11.00	10.25	8.00	10.00	11.50	10.00	10.00	12.00
2,000 cu. yds. excess concrete masonry in shafts, tunnels and drifts	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
200 cu. yds. brick masonry in shafts, tunnels and drifts	15.00	20.00	15.00	15.00	20.00	20.00	25.00	16.00
6,500 cu. yds. dry packing in tunnels and drift	2.00	2.50	2.50	2.50	3.00	6.00	4.00	3.00
26,500 sq. ft. drainage interlining in drainage shaft	.25	.25	.15	.30	.40	.50	1.00	.30
820,000 lbs. steel interlining in risers	.08	.07	.05	.10	.07	.15	.06	.08
70,000 lbs. steel interlining in and adjacent to drainage drift	.10	.08	.05	.10	.07	.18	.06	.08
475 sq. ft. cutting channels for water stops	1.50	2.50	1.50	3.00	2.00	2.00	6.00	2.40
1,000 lin. ft. drilling 1½-in. holes in rock or masonry	.40	1.00	.50	.30	.50	.55	.50	.40
3,000 lin. ft. drilling 1¾ to 2½-in. holes in rock or masonry	.50	2.50	.75	.40	.60	.65	.50	.50
40,000 lin. ft. steel pipe for grouting	.25	.50	.20	.30	.30	.30	.25	.25
Plant and equipment for grouting (lump sum)	5,000.00	5,000.00	10,000.00	8,000.00	7,500.00	7,500.00	5,000.00	5,000.00
10 high pressure air compressors for grouting	250.00	300.00	500.00	250.00	600.00	300.00	500.00	250.00
5 air-stirring grouting machines	350.00	300.00	500.00	350.00	300.00	300.00	500.00	250.00
5 mechanically stirring grouting machines	500.00	350.00	500.00	500.00	600.00	600.00	500.00	400.00
40 grouting pads	60.00	100.00	80.00	100.00	75.00	75.00	100.00	50.00
8,000 grouting connections	2.00	1.50	1.00	3.00	2.00	1.00	1.00	.60
2,500 settings, grouting pads	1.00	1.50	2.00	6.00	2.00	1.00	1.00	1.50
4,000 tons sand for grout	2.25	2.00	2.00	3.00	5.00	4.00	2.25	1.50
6,000 cu. yds. mixing and placing grout	4.00	6.00	5.00	9.00	5.00	5.00	5.00	4.50
11,500 cu. yds. excavation in open cut	3.00	3.50	6.00	4.00	3.00	7.00	6.00	3.00
4,800 cu. yds. refilling and embanking	1.00	1.00	1.00	4.00	1.50	1.75	.50	.60
250 M. ft. B. M. timber and lumber	50.00	75.00	45.00	75.00	75.00	75.00	75.00	50.00
3,200 cu. yds. concrete masonry in open cut	7.00	12.00	10.00	15.00	12.00	8.00	10.00	10.00
205,000 bbls. Portland cement	1.34	1.50	1.50	2.00	1.70	1.50	1.60	1.90
1,000,000 lbs. reinforcing steel	.04	.04½	.04	.06	.05	.06	.04	.05
450,000 lbs. miscellaneous iron and steel	.06	.07	.07	.10	.07	.10	.05	.07
45,000 lbs. galvanizing	.04	.06	.02	.02	.03	.05	.02	.02
930,000 lbs. setting metal work furnished by the city	.02½	.06	.03	.07	.03	.03	.03	.07
100 tons c.-i. pipe and specials	100.00	80.00	60.00	100.00	60.00	100.00	100.00	60.00
5,000 lbs. bronze pipe and miscellaneous bronze	1.00	.80	1.00	1.00	.60	.75	1.00	.75
500 lin. ft. vitrified pipe, 18 to 24-in.	.60	2.50	2.00	1.50	1.70	3.00	3.00	1.50
1,200 lin. ft vitrified pipe, 15-in and smaller	.45	1.25	1.25	1.00	1.00	2.00	2.00	1.25
100 cu. yds. dry rubble masonry and paving	3.00	5.00	4.00	6.00	4.50	8.00	6.00	4.00
100 cu. yds. rubble masonry and paving in mortar	5.00	6.00	5.00	6.50	4.50	10.00	9.00	5.00
5,500 sq. yds. pavment	3.00	3.00	3.00	4.00	3.50	4.00	4.50	4.00
500 cu. yds. crushed stone and gravel	2.50	3.00	2.00	3.00	2.00	2.50	2.00	2.00
50 lin. ft. reinforced-concrete ladders	5.00	2.00	3.50	12.00	5.00	5.00	15.00	1.00
Section and locker houses (lump sum)	20,000.00	8,000.00	10,000.00	20,000.00	15,000.00	20,000.00	18,000.00	10,000.00
8,000 lin. ft. sinking casing and core drilling	5.00	5.00	5.00	6.00	5.00	6.00	7.00	5.00
5,000 lbs. casing left in place	.10	.06	.10	.07	.01	.07	.30	.03
Totals	$5,295,219	$5,272,435	$5,469,308	$6,281,455	$6,478,450	$6,572,515	$5,976,921	$6,417,385

MISCELLANEOUS CONTRACTS.

(Continued from page 242.)

+COPPER WIRE.—Washington, D. C.—The contract for furnishing twelve miles of hard drawn copper wire No. 10 for the Signal Corps, U. S. A., has been awarded to the **STANDARD UNDERGROUND CABLE CO., Westinghouse Bldg., Pittsburg, Pa.**, at **13⅝ cts. per lb. List of bidders noted on May 11.**

BROKEN STONE, STEEL, ETC.—Washington, D. C.—Bids will be received until May 23 by the Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing the following supplies to various navy yards and naval stations: Mare Island, Cal., Schedule 3518, 11,000 cu. yds. broken stone; Schedule 3519, 110 M. ft. Oregon pine; Schedule 3521, 48,500 lbs. galvanized steel, 13,500 lbs. black sheet steel, 24,900 lbs. galvanized medium steel plate, 20,300 lbs. medium steel plate, steel angles, channels and I-beams, 120,000 lbs. medium steel, finished steel rods, 3,000 lbs. commercial brass rod, 25,000 lbs. slab zinc, 31,000 lbs. sheet zinc for hull fittings; Schedule 3523, 65,000 lbs. zinc boiler plates, 4,475 lbs. sheet brass, 4,100 lbs. sheet copper, 37,000 lbs. seamless drawn brass pipe. Puget Sound, Wash., Schedule 3521, 40,000 lbs. galvanized sheet steel; Schedule 3523, 4,500 lbs. sheet brass 5,500 lbs. seamless drawn brass pipe, 17,000 ft. pipe; Schedule 3524, 3,000 ft. single conductor. Philadelphia, Pa., Schedule 3563, 20 M. ft. white pine No. 3. Norfolk, Va., Schedule 3563, 25 M. ft. yellow pine. Charleston, S. C., Schedule 3563, 31 M. ft. yellow pine No. 2. Brooklyn, N. Y., Schedule 3561, 48,700 lbs. medium angle steel, 31,300 lbs. medium plate steel; Schedule 3566, 2,300 lbs. sheet brass, 4,000 lbs. boiler plate steel. Washington, D. C., Schedule 3560, 22,000 lbs. hot rolled or forged steel. Boston, Mass., Schedule 3565, 17,000 lbs. crucible cast steel wire. Applications for proposal blanks should designate the schedules desired by number.

✚ROAD OIL.—Washington, D. C.—The STANDARD OIL CO., 26 Broadway, New York, has been awarded the contract for furnishing road oil and tar for the roads in the District of Columbia, as follows: 8,000 gallons Class A oil, 4.62 cts. per gallon; 8,000 gallons Class B oil, 3.43 cts.; 8,000 gallons Class C oil, 3.63 cts.; for unloading and applying, ¾-ct.

✚RETAINING WALLS.—Morgantown, W. Va.—The contract was awarded on May 4 to GILMORE & WEAVER for building retaining walls along the new B. & N. R. R. Estimated cost, about $50,000.

LOCK AND DAM.—Wheeling, W. Va.—Bids were received as follows on May 10 by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for constructing Lock and Dam No. 14, at Woodland, W. Va.: The Missouri Valley Bridge & Iron Co., Leavenworth, Kan., $862,091, alternative bid $839,851; Ohio River Contract Co., Evansville, Ind., $967,309 and $753,559; Dravo Contracting Co., Pittsburg, Pa., $894,776 and $873,176; Sheridan-Kirk Contract Co., Cincinnati, Ohio, $866,989 and $867,279; The T. A. Gillespie Co., Pittsburg, $1,009,665 and $1,002,705.

DREDGING.—Charleston, S. C.—Bids were received as follows on May 10 by Col. Dan C. Kingman, Corps. Engrs., U. S. A., for dredging at Winyah, S. C.; P. Sanford Ross, Inc., Jersey City, N. J., 11.37 cts. per cu. yd.; Atlantic Gulf & Pacific Co., New York, N. Y., 9.9 cts.; North American Dredging Co., San Francisco, Cal., 10.69 cts.; Southern Dredging Co., Mobile, Ala., 11⅞ cts.; Bowers Southern Dredging Co., Galveston, Tex., 10.4 cts.; Dorerick G' Ross, Jacksonville, Fla., 11 cts.; Coastwise Dredging Co., Norfolk, Va., 12.5 cts.

*DREDGING.—Savannah, Ga.—Bids are asked by Col. Dan C. Kingman, Corps Engrs., U. S. A., Savannah, until noon, June 16, for dredging in harbor at Savannah.

DREDGING.—Jacksonville, Fla.—Bids will be received until noon, June 3, by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging in Indian River, Fla.

ROCK.—New Orleans, La.—Bids will be received until 11 a. m., June 6, by Maj. H. Burgess, Corps Engrs., U. S. A., New Orleans, for furnishing about 26,000 tons of rock for bank revetment.

CEMENT.—New Orleans, La.—Bids will be received by Lt.-Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, until 11 a. m., May 24, for furnishing about 7,250 bbls. of Portland cement for Keystone Lock, Bayou Teche, La.

SUBWAYS.—Memphis, Tenn.—As a result of an agreement reached between the city and the Nashville, Chattanooga & St. Louis Ry. Co., the company will build subways at the Parkway and Barsdale St. crossings. J. W. Thomas is Pres. and Gen. Mgr., Nashville, Tenn.

CHAPEL.—Coldwater, Mich.—Bids will be received until 5 p. m., May 25, by the Cemetery Trustees for the construction of a mortuary chapel in Oak Grove Cemetery.

PIER WORK.—Grand Rapids, Mich.—Bids were received April 27 by Lt.-Col. C. S. Richie, Corps Engrs., U. S. A., Grand Rapids, for repairing and construction of piers at South Haven, Grand Haven, Muskegon, Frankfort and Petoskey Harbors, Mich. The following bidders have been recommended for acceptance: South Haven Harbor—Robert Love & Son, Muskegon, $24,209; Grand Haven—Luther D. Smith, of Sturgeon Bay, $10,080; Muskegon Harbor—Robert Love & Son, $29,320; Frankfort Harbor—L. E. Achnorbach & Co., Muskegon, $14,730; Petoskey Harbor—T. L. Durocher, Sault Ste. Marie, $1,431.

*DREDGING.—Detroit, Mich.—Bids will be received until June 6 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Jones Bldg., Detroit, for dredging Black River at Port Huron.

COAL BUNKERS.—Chicago, Ill.—Bids will be received by the city until 11 a. m., May 23, for furnishing all materials, tools, labor and appliances necessary to erect in place coal bunkers with platform, ash hopper, coal receiving hopper, spouts and valves in the boiler-house of the Roseland pumping station, 104th St. and Stewart Ave., according to plans and specifications on file in the office of the Department of Public Works.

✚FOG SIGNAL MACHINERY.—Chicago, Ill.—Bids were opened on April 22 by the Inspector of the Twelfth Lighthouse District, Chicago, for furnishing three complete sets of fog signal machinery for Chicago Harbor, Ill., Kewannee Pierhead Range, Wis., and Point Betsie, Mich., light stations, as follows: CHICAGO PNEUMATIC TOOL CO., 277 Dearborn St., $12,636 (awarded contract); Fairbanks, Morse & Co., $13,162, alternate $17,842; American Air Compressor Works, $15,120 and $14,502.

LEVEE.—East St. Louis, Ill.—The Trustees of the East Side Levee and Sanitary District on May 5 passed an ordinance adopting plans for the construction of Section No. 4 of the Front Levee.

DITCHES.—Lawrenceville, Ill.—Bids will be received until noon, May 20, by L. O. Haville, Comr., Lawrenceville, at the office of R. J. Benefiel, Engr., Lawrenceville, for the construction of the following ditches: 15,300 ft. of open ditch, 4-ft. bottom; 12,712 cu. yds. excavation; also for furnishing and laying 3,500 ft. of 10-in. tile and 2,600 ft. of 8-in. tile.

REPAIR OF DAMS, ETC.—Rock Island, Ill.—Bids will be received until 2 p. m., June 8, by Maj. C. Keller, Corps Engrs., U. S. A., for the construction and repair of dams and shore protections between Reads Landing, Minn., and Alma, Wis.; between Genoa and Lynxville, Wis.; between McGregor and Dubuque, Iowa; between Rock Island, Ill., and Muscatine, Iowa, contiguous to Sections 16, 17, 32, 33 of Flint Creek-Iowa River Levee; between Keokuk, Iowa, and Hannibal, Mo., and between Hamburg, Ill., and Cap au Gris, Mo.

✚BREAKWATER.—Milwaukee, Wis.—The Board of Park Commissioners, Frank P. Schumacher, Secy., has awarded the contract for the construction of 500 lin. ft. of breakwater for the protection of Lake Shore Drive to P. W. GALLOWAY, Racine, Wis., at $44 per ft.

COAL PLANT.—Sioux City, Iowa.—L. G. Everist is planning to install a coal storage plant on Virginia St. Estimated cost, between $15,000 and $18,000.

✚DREDGING.—Duluth, Minn.—The contract for dredging at Port Wing, Wis., bids opened on May 6 by Maj. F. R. Shunk, Corps Engrs., U. S. A., Duluth, Minn., has been awarded to the NORTHERN DREDGE & DOCK CO., of Duluth, at 13.5 cts. per cu. yd.

✚DREDGING.—Duluth, Minn.—Bids were received on May 13 by Maj. Francis R. Shunk, Corps Engrs., U. S. A., Duluth, for dredging at Ontonagon, Mich. The contract has been awarded to the ZENITH DREDGE CO., of Duluth, at 11.5 cts. per cu. yd. About 46,000 cu. yds. of material, scow measurement, will be removed.

✚DITCH.—Jackson, Minn.—Bids were received on May 12 by the county for constructing Judicial Ditch No. 12. The contract has been awarded to JOHNSON & JEFSON, of Clear Lake, Iowa.

DITCHES.—Roosevelt, Minn.—Bids will be received until May 24 by A. B. Johnson, Clk., for ditches to be constructed in Oaks Township.

TUNNEL.—Denver, Colo.—The Moffat tunnel bill providing for the construction of a tunnel under Gray's Peak by the State has passed both houses of the Legislature. Noted on April 27.

COTTAGE.—Fort Simcoe, Wash.—Bids will be received until 2 p. m., June 12, by R. G. Valentine, Comr. Indian Affairs, Dept. of the Interior, Washington, D. C., for all materials and labor for the construction of a cottage at Yakima School. S. A. M. Young is Supt., Fort Simcoe.

PORT ANGELES, WASH.—The Seibert Creek Irrigation Co. will construct a dam on Seibert Creek for the purpose of irrigating land between Seibert Creek and McDonnell Creek.

TELEPHONE IMPROVEMENTS.—Longbeach, Cal.—The Home Telephone Co. contemplates improvements to its local system to cost $100,000, the principal item being the re-cabling of the entire city. The cables in the business district will be placed underground and in other districts aerial cables will be used.

WIRE.—Los Angeles, Cal.—Bids will be received until May 25 by the U. S. Reclamation Service, Los Angeles, for furnishing 43,000 lbs. of No. 3 B. & S. 7-wire, hard-drawn copper strand; 500 lbs. No. 6 B. & S. soft copper wire; 38,000 lbs. No. 3, B. & S. 7-wire, hard-drawn copper strand; and 350 lbs. of No. 6, B. & S. soft copper wire.

CREMATORIUM.—San Diego, Cal.—Charles G. Wright, of Tacoma, Wash., is preparing for the erection of a crematorium in Greenwood Cemetery, San Diego. Estimated cost, $50,000.

✚ENGINE HOUSE.—San Francisco, Cal.—The Board of Public Works has awarded to O. C. HOLT, San Francisco, the contract for constructing Engine-House No. 43, on Brazil Ave., at $11,940.

LEVEES, ETC.—Santa Ana, Cal.—Bids will be received until June 3 by the Directors of the Newbert Protection District, for the construction of levees and dredging the river channel, bids to be received on the entire work or any portion.

WHARF.—Montebello, Que.—Bids will be received until June 12, by R. C. Desrochers, Secy., Pub. Wks., Dept., Ottawa, Ont., for the construction of a wharf. Specifications, etc., on application to J. L. Michaud, Dist. Engr., Merchants Bank Bldg., Montreal, Que., or Department Public Works, Ottawa.

WHARF, ETC.—Beaumaris, Ont.—Bids will be received until June 12, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the construction of a wharf and stone approach. Plans and information on application to J. G. Sing, Dist. Engr., Toronto, or H. J. Lamb, Dist. Engr., London, Ont.

WHARF.—Ottawa, Ont.—Bids will be received by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, until 4 p. m., May 31, for the construction of a landing wharf at Cape Rouge, Iverness County, N. S.

DREDGING.—Midland, Ont.—Bids will be received until 4 p. m., May 19, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for dredging at Midland.

DREDGING.—Ottawa, Ont.—Bids will be received until May 19 by the Department of Public Works, Ottawa, for dredging at various places in Quebec Province. R. C. Desrochers is Secy.

✚WHARVES.—Victoria Harbor, Ont.—The JOHN S. METCALF CO., LTD., 54 St. Francois Xavier St., Montreal, Que., was awarded a contract on May 6 by the Canadian Pacific Ry. Co. for about one-third of a mile of wharves here, in addition to the wharf work awarded the company at this point. The contract is for wooden crib structures below water with reinforced-concrete superstructures. This makes the total amount of wharf for which the Canadian Pacific Ry. Co. has awarded contracts at the above point to the company approximately 1¼ miles.

MOTOR FERRY.—Mission, B. C.—Bids will be received until May 29, for a motor ferry for the Fraser River at Mission. Specifications, etc., on application to J. E. Griffith, Pub. Wks. Engr.

WIRE FENCE.—Brandon, Man.—Bids will be received until noon, May 31, by Lyndwode Pereira, Asst. Secy., Dept. of the Interior, Ottawa, Ont., for the construction of a wire fence for the "Turtle Mountain Forest Reserve," with necessary gates, planting the posts, and any necessary cutting out and clearing of a line for the fence; all material except posts to be furnished by the contractor. The "Turtle Mountain Forest Reserve" is situated about 65 miles south of Brandon. The estimated length of fence required is 19½ miles. The work is to be bid for as a whole, according to plans and specifications, which may be had upon application to the Department of the Interior, Ottawa, or to C. A. Walkinshaw, Forest Ranger, Boissevain, Man.

U. S. POSSESSIONS.

LUMBER.—Panama.—Bids were received as follows on May 12, at the office of Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for 630,000 ft., B.M., of lumber, long-leaf yellow pine or Douglas fir, to be delivered at Balboa or Colon, Canal Zone: Chicago Lumber & Coal Co., St. Louis, Mo., $15,622 (pine); G. Elias & Bro., Buffalo, N. Y., $15,490 (pine); S. E. Naylor & Co., Gulfport, Miss., $16,730 (pine); Charles Nelson Co., San Francisco, $13,531 (fir); Robinson Lumber, Veneer & Box Co., New Orleans, La., $16,292 (pine); W. R. Grace & Co., San Francisco, $11,806 (fir).

IRON AND STEEL.—Panama.—Bids were received as follows on May 10 by Cap. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing supplies of iron, steel and other metals for use on the Panama Canal during the fiscal year ending June 30, 1912: (1) Ajax Metal Co., Philadelphia; (2) Ajax Forge Co., Chicago; (5) American Frog & Switch Co., Hamilton, Ohio; (6) American Iron Supply Co., 159 Dearborn St., Chicago; (10) Bethlehem Steel Co, South Bethlehem, Pa.; (15) Columbia Smelting & Refining Co., New York; (17) Conley Frog & Switch Co., Memphis, Tenn.; (18) Crown Smelting Co., Chester, Pa.; (19) R. S. Hays, Carlisle, Pa.; (21) R. C. Hoffman Co., Baltimore; (22) Kilby Frog & Switch Co., Birmingham, Ala.; (28) Morden Frog & Crossing Works, Chicago; (30) National Lock Washer Co., Newark, N. J.; (35) Pittsburg Forge & Iron Co., Pittsburg; (37) Ramapo Iron Works, Hillburn, N. Y.; (39) Thomas Iron Co., Easton, Pa.; (42) Weir Frog Co., Cincinnati, Ohio; (43) Youngstown Sheet & Tube Co., Youngstown, Ohio; (44) Baker, Sigsbee & Co., Washington; (45) George S. Fowler, Washington; (47) J. B. Kendall Co., Washington; (50) United States Steel Products Co., New York; (51) L. Vogelstein & Co., 42 Broadway, New York; (52) William Wharton, Jr., Co., Inc., Philadelphia:

Class 1, 1,800 gross tons Bessemer steel rails, 70-lb.: Bidder (10) first quality, $31.85 per ton; second, $30,26; (21) first, $32.25; second, $31.35; (50) first, $33; second, $32.25.

Class 2, 1,250 gross tons Bessemer steel rails, 90-lb.: Same bidders and unit prices.

Class 4, rigid track frogs, 70-lb. rail (manganese-steel center): (2) $15,594; (5) $16,773; (17) $19,387; (19) $15,366; (21) $15,119; (22) $16,037; (28) $19,508; (37) $16,670; (42) $15,017; (50) $14,823; (52) $17,604 and $13,247.

Class 17, 750,000 lbs. track spikes, steel, 9/16 × 5½ ins.: (47) $12,592; (50) $12,600.

Class 20, sheet steel: (47) $29,729; (50) $27,787.

Class 24, merchant bar iron or soft steel, flat bars: (35) part, $18,234; (47) $18,112; (50) $17,468.

Class 29, 125,600 ft. pipe, wrought-iron or steel: (43) $25,400; (50) $26,004.

Class 32, 40,000 lbs. Babbitt metal, No. 1, for heavy bearings: (1) $12,400; (6) $14,474; (15) $11,340; (18) $15,600; (44) $12,300; (45) $11,610.

Class 36, 200,000 lbs. ingot copper: (6) $27,890; (30) $25,800; (51) $25,080.

Class 37, 3,100,000 lbs. iron, foundry pig: (6) $23,845; (39) $26,850; (50) $21,680.

EXAMINATIONS.

WIRELESS-TELEGRAPH INSPECTOR.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 7 to secure eligibles from which to make certification to fill a vacancy in the position of Wireless-telegraph Inspector, at $1,800 a year, Signal Service at Large, for duty either in Alaska or the Philippine Islands if necessary, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Theory and practice of wireless-telegraph station installation and operation, 45 points; general and technical educational training, experience and fitness, 25 points; special and practical experience in wireless telegraphy, 30 points. Applicants must have reached their 20th birthday. Examination form 1312.

BACTERIOLOGICAL CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 21 to secure eligibles from which to make certification to fill a vacancy in the position of Bacteriological Chemist, $1,200 a year, in the Bureau of Chemistry, Department of Agriculture, at Philadelphia, Pa., and vacancies requiring similar qualifications as they may occur in that department at Washington, D. C., and eleswhere, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Practical questions in chemistry, including bacteriological chemistry, 45 points; contributions to scientific literature or a thesis of not to exceed 2,500 words on some subject related to bacteriological chemistry, 10 points; training in French and German, 10 points; education, training, experience and fitness (including undergraduate and postgraduate work in chemistry and bacteriology), 35 points. Applicants must have reached their 20th birthday. Examination form 1312.

MECHANICAL ENGINEER.—New York, N. Y.—The Municipal Civil Service Commission 299 Broadway, New York, will receive applications from May 12 until 4 p. m., May 26, for the position of Mechanical Engineer. The examination will be he[illegible] June 19, at 10 a. m. The subjects an[illegible]ghts of the examination are as follow[illegible]chnical, 5; experience, 3; arithmetic, [illegible]% required on the technical and 70% on [illegible] Candidates must be graduates of a tech[illegible] school and have had drafting-room expe[illegible]on details of mechanical appliances, [illegible]r with at least three years' experien[illegible] assembling and erection of units conne[illegible] with steam plants. They must show a [illegible]arity with the details of complete me[illegible]al equipments of public buildings—p[illegible]ing, elevators, heating, electric lightin[illegible]mping and power systems. Minimum ag[illegible]ears. One vacancy in office of Commiss[illegible] of Public Works, Manhattan. Salary, [illegible] a year. Frank A. Spencer is Secy.

INDUSTRIAL NOT[illegible]

THE CORRUGATED BAR C[illegible] has purchased the General Reinforc[illegible] Co., of Youngstown, Ohio, and will [illegible]te their plant as the Youngstown plan[illegible] the Corrugated Bar Co.

THE J. FAESSLER MFG. C[illegible] Moberly Mo., makers of Boss and Unive[illegible] flue expanders, flue cutters and other [illegible]r tools, have reorganized their sales de[illegible]ent and placed Mr. Charles F. Palmer i[illegible]rge, as sales manager, with office at S[illegible] Olive St., St. Louis, Mo.

THE 300-ACRE HOWARD T[illegible]T along the Jamaica Bay, formerly the [illegible] of the Hotel Howard, has been purch[illegible] by the Howard Estates Development C[illegible] a company recently formed with the vi[illegible]f starting a new town. The operation [illegible]lves an expenditure of about $750,000. Th[illegible] property skirts Rockaway Beach from [illegible] Aqueduct station to the bay. Accord[illegible] to reports the company will spend $[illegible],000 in grading and general improvem[illegible]. The water front will be increased fro[illegible]000 ft. to two miles by cutting a chann[illegible] a mile long and 350 ft. wide on the w[illegible] side of the tract. A large private bath[illegible] beach will be built. The officers of the new company include William E. Phillips, as Pres.; John F. Wallace, Vice-Pre[illegible] S. B. Willey, Treas., and E. W. Hammons as Secy.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogs recommended by all the principal engineering societies of the United States are 3½ x 6 ins., 6 x 9 ins. and 9 x 12 ins.)

RECORDING VOLTMETERS.—Bristol Co., Waterbury, Conn. Bulletin 131. Paper; 8 × 10½ ins.; pp. 43; illustrated.

The several forms of Bristol recording voltmeters for various electrical circuits are described in this bulletin. Sample specimens are given of the scales of charts carried in stock.

ELECTRICAL CONSTRUCTION SUPPLIES.—Fletcher Mfg. Co., Dayton, Ohio. Catalog 565. Paper; 6 × 9 ins.; pp. 64; illustrated.

This catalog is largely given up to material of use to the electrical contractor in stringing overhead lines, arc lamps, incandescent street lamps, etc.

DRAWING TABLES.—Keuffel & Esser Co., Hoboken, N. J. Leaflet; 5½ × 9 ins.; illustrated.

Several styles of the "Hudson" drawing tables are described in this catalog. These are of new design and cover styles from the smallest and simplest to the largest and most fully equipped types.

HIGH-TENSION SUBMARINE CABLES.—Waterbury Co., New York City. Paper; 3 × 8 ins.; pp. 15; illustrated.

This company has reprinted from the "Electric Railway Journal" of Feb. 25, 1911, an illustrated article on the simultaneous installation of seven high-tension submarine cables under the Harlem River at 216th St., New York City.

MANGANESE STEEL.—Edgar Allen American Manganese Steel Co., McCormick Bldg., Chicago, Ill. Paper; 3½ × 6¼ ins.; pp.8.

This is a reprint in pamphlet form of an article on "Manganese Steel and Its Application in the Ceramic Industries," read before the National Brick Manufacturers' Association by Mr. G. W. Kneisly.

STEAM PUMPS.—Ingersoll-Rand Co., 11 Broadway, New York. Circular 7001. Paper; 6 × 9 ins.; pp. 12; illustrated.

This company has now issued, in form corresponding to its standard bulletins, a leaflet describing the standard products formerly made by the A. S. Cameron Steam Pump Works, which concern has now been consolidated with the Ingersoll-Rand Co.

ROAD ROLLERS.—Buffalo Steam Roller Co., Buffalo, N. Y. Paper; 3½ × 6 ins.; pp. 40; illustrated.

In a handy little booklet, this company has compiled directions for starting and operating its various road rollers. The information includes descriptions of the oiling apparatus, governor, injectors, etc., and tells how to get up steam, how to maintain the fire, start the engine, feed water, clean the tubes and boiler, care for the engine, etc.. It also gives some hints on the best ways of using the roller, as, for instance, the use of a road grader behind the roller, the preparation of macadam, etc.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
5-20	Roof coverings, Norfolk, Va. .(S.)	4-27
5-27	Pumping equip., Norfolk, Va. (S.)	4-27
5-27	Wharf, trestle, etc., Alaska. .(S.)	4-13
5-27	Water, etc., meters, Washington, D. C. ....(S.)	5-11
6- 1*	Canal enlargement, Boise, Idaho. ....(S.)	3-30
6- 1	Steel bridge, McElhattan, Pa. (P. & S.)	5-18
6- 3	Floating cranes, Hawaii.....(S.)	4- 6
6- 3	Locomotive, Portsmouth, N. H. ....(S.)	4-27
6- 3	Extension of dikes, Vallejo, Cal. (S.)	5- 4

Light, Heat and Power Plants.

Bids close.		Noted in issue of
5-20	Concrete dams, Marquette, Mich.	5-11
5-20	Steam heating system, Georgetown, Ont.	5-11
5-22	Electrical equipment, New York, N. Y.	5-18
5-22	Street lighting, Los Angeles, Cal..	5-11
5-23	Tube and appurtenances for electric subways, Utica, N. Y.	5-18
5-23	Generators, Dayton, Ohio	5- 4
5-24	Franchise, Riverside, Cal.	4-27
5-24	Transmission line, Riverside, Cal.	5-11
5-24*	Electric subway, Utica, N. Y.	5-11
5-25	Power plant equipment, Melville, Sask.	5-11
5-26	Gas mains and interior lighting, Cincinnati, Ohio	5-11
5-27	Electric meter, Washington, D. C.	5-18
5-29	Franchise, Los Angeles, Cal.	5-11
5-29	Gas lighting system, Los Angeles, Cal.	5-11
5-31	Electrical machinery, Prince Albert, Sask.	5-11
6- 1	Lighting fixtures, Washington, D. C.	5-11
6- 1	Steam heating system, Coburg, Ont.	5-18
6- 2	Motor driven pump, Fort Morgan, Ala	5-11
6- 2	Power house, Columbus, Ohio	5-11
6- 5	Power plant and machinery, Los Angeles, Cal	5-11
6- 6	Street lighting system, Amsterdam, N. Y	5-18
6- 6	Electrical equipment, Toronto, Ont	5-18
6- 7	Lighting plant, Eufala, Ala	5-11
6- 8	Power house, Santa Rosa, Cal	5-11
6- 8	Heating system, Baltimore, Md.	5-11
6-10	Electric light system, Colquitt, Ga.	5-11
6-17	Lighting system and fixtures, Helena, Mont.	5- 4

Bridges.

Bids close.		Noted in issue of
5-18	Bridge, Springfield, Ill	5-18
5-19	Bridge, Dayton, Ohio	5-11
5-20	Bridge, Moab, Utah	5-11
5-20	Bridge, Harrisburg, Pa	5-18
5-20	Bridge work, Sombra, Ont	5-18
5-22	Bridge work, Lorain, Ohio	5- 4
5-22	Bridges, Pittsburg, Pa	5-11
5-22	Bridge, Canton, Ohio	5-11
5-22	Bridge work, Marion, Ind	5-18
5-22	Bridge, Fond du Lac, Wis	5-18
5-22	Bridge, Elyria, Ohio	5-18
5-25	Bridge, Meadville, Pa.	5-18
5-25	Bridges, Springfield, Ill	5-18
5-26	Bridges, Springfield, Ill	5-18
5-27	Bridges, Springfield, Ill	5-18
5-27	Bridge work, Edmonton, Alta	5-18
5-27	Bridge work, Arkwright, Ont	5-18
5-27	Bridges, Jackson, Miss	5-18
5-29	Bridge, Wauseon, Ohio	5-18
5-29*	Bridge work, Cincinnati, Ohio	5- 4
5-29	Bridge, Warren, Ohio	5-11
5-29	Bridge, Norfolk, Ohio	5-11
5-30	Bridge, Toronto, Ont	5-18
5-31	Bridges, Pittsburg, Pa	5-18
5-31	Bridge, Canton, Ohio	5-18
5-31	Bridge, Hamilton, Ohio	5-11
6- 1	Bridge work, New York, N. Y	4- 27
6- 1	Bridge, McElhattan, Pa	5-18
6- 1	Bridges, Santa Fe, N. Mex	5-18
6- 3	Bridge work, Cleveland, Ohio	5-18
6- 5	Bridge, Redwood City, Cal	5-18
6- 5*	Bridge, Lackawanna, N. Y	5-11
6- 6	Bridge, Santa Barbara, Cal	5-18
6- 7	Bridge work, Somerset, Pa	5-18
6-17	Bridge, Spain ....(Foreign)	4- 6

Buildings.

Bids close.		Noted in issue of
5-18	School, Decatur, Ind	5-18
5-19	Building, Mitchell, S. Dak	5-18
5-19	School, Mantorville, Minn	5-18
5-19	Library, Indianapolis, Ind	5-18
5-19	U. S. post office, Wellington, Kan.	5-18
5-19	Library, Cincinnati, Ohio	5-11
5-19*	U. S. post-office and court house, Phoenix, Ariz	4-13
5-20	U. S. post-office, Sioux Falls, S. Dak	4-13
5-20	Schools, Columbus, Ohio	5-11
5-20	School, Jackson, Minn	5-18
5-20	Building, Miller, S. Dak	5-18
5-20	School, Ventura, Cal	5-18
5-20	Mfg. Building, Manitowoc, Wis.	
5-21	Houses, Jackson, Ky	5-11
5-22	City hall, Oakland, Cal	5-11
5-22	U. S. post-office, Warrensburg, Mo	4-13
5-22	Alterations to schools, New York, N. Y.	5-11
5-22	School, Athens, W. Va.	5-18
5-22	Jail, Newman, Ga	5-18
5-22	Library building, Sac City, Iowa.	5-18
5-22	Courthouse, Belle Fourche, S. Dak.	5-18
5-23	School, Indianapolis, Ind	5-18
5-23	School, Norfolk, Neb	5-18
5-23	Stable, Brooklyn, N. Y	5-18
5-23	School, Valley City, N. Dak	5-18
5-23	Additions to University, Vermillion, S. Dak	5-18
5-23	U. S. post-office, Ft. Collins, Colo.	4-20
5-24	School, Waupaca, Wis	4-20
5-24*	U. S. post-office, Greenwood, Miss.	4-20
5-24	Administration bldg., Yellowstone Park, Wyo.	5-11
5-24	Elks building, Rapid City, S. Dak.	5-18
5-24	Courthouse, Middlesboro, Ky	5-18
5-24	Sewers, New York, N. Y.	5-18
5-25	School, Athol, S. Dak	5-18
5-25	School, Langdon, N. Dak	5-11
5-25	U. S. post-office and custom-house, San Diego, Cal	4-20
5-26	School, Rosalie, Neb	5-18
5-26	Infirmary building, Ottawa, Kan.	5-18
5-27	Town hall, Carroll, Ohio	5-18
5-27	School, Doland, S. Dak	5-18
5-27	U. S. post-office, Gadsden, Ala..	4-20
5-27*	U. S. post office and custom house, Richford, Vt	4-20
5-27	School, Kanawha, Iowa	5- 4
5-29	U.S. post-office, Dyersburg, Tenn.	4-27
5-29	Public bldg., Seaforth, Ont	5-11
5-29	School, New York	5-18
5-29	Improvements to schools, New York	5-18
5-29	Addition to hospital, Fort Du Pont, Del	5-18
5-29	Industrial school, Cranbrook, B. C.	5-18
5-29	Addition to school, Warren, Ohio.	5-18
5-29	Hospital, Kalispell, Mont	5-18
5-31	U. S. post-office, Sulphur Springs, Tex.	5- 4
6- 1	Courthouse, Union, S. C.	5-18
6- 1	Courthouse, Tarboro, N. C.	5-18
6- 5*	U. S. post-office, Dublin, Ga..	4-27
6- 6	Asylum, Rockport, Ind	5- 4
6- 6	U. S. post-office, Wichita Falls, Tex.	5- 4
6- 6	Bank bldg., Monterey, Mex	5-11
6- 6	Asylum, Rockport, Ind	5-11
6- 6	Armory, East Orange, N. J	5-18
6- 6	Courthouse, Ville Platte, La	5-18
6- 7	Remodeling U. S. post-office, Wilmington, Del.	5- 4
6- 8	School, Van Wert, Ohio	5-18
6- 9	U. S. post-office, Victoria, Tex	5- 4
7-27*	Group of buildings, Olympia, Wash.	5-11

Water-Works.

Bids close.		Noted in issue of
5-19	Water mains, New York	5-11
5-19	Water pipes, St. Louis, Mo	5-11
5-19	Water-works extension, Glasgow, Mo..	5-18
5-20	Watermain work, Sioux City, Iowa.	5-18
5-20	Pumps, etc., Sioux City, Iowa	5-11
5-22	Water mains, Silverton, Ohio	5-11
5-22*	Water-works, Battle Creek, Neb.	5-11
5-22	Valves, etc., Columbus, Ohio	5-11
5-22	Water tower, etc., Good Thunder, Minn.	5-11
5-22	Water-works, Stanford, Ill	5-4
5-22	Water system, North Mankato, Minn	5- 4
5-22	Water pipe, San Diego, Cal	5- 4
5-22	Water pipes, Barnesville, Ohio..	5-18
5-22	Water wheels, Cincinnati, Ohio..	5-18
5-22	Water-works material, Homer, La	5-18
5-22	Water-works, Vian, Okla	5-18
5-22	Boilers, etc., Etna, Pa	5-18
5-22	Water pipe, Lachute, Que	5-18
5-23	Watermains, Cicero, Ill	5-18
5-23	Pumping engine, Kenton, Ohio..	5-18
5-23	Repairing tank, Niagara-on-the-Lake, Ont	5-18
5-23*	Siphon, New York	5- 4
5-23	Well, Huron, S. Dak	5-18
5-23	Pipe hydrants, etc., La Crosse, Wis.	5- 4
5-23	Water-works, Vermillion, S. Dak.	5-11
5-23	Steel pipe, Toronto, Ont	5-11
5-23	Watermains, Troy, N. Y	5-18
5-24	Watermains, etc., New York	5-18
5-25	Water-works extension, Banff, Alta	5-18
5-25	Standpipe, Cortland, N. Y	5-18
5-25	Water-works, Pleasant Hill, Mo..	5-18
5-25	Water pipes, etc., Lake City, Minn.	5-18
5-25	Laying pipe, etc., Harriston, Ont.	5-11
5-25	Water main, Fort Myer, Va	5- 4
5-26	Pump, Toledo, Ohio	5-11
5-26*	Water-works, Crosswicks, N. J..	5-18
5-26	Mains, Zumbrotta, Minn	5-18
5-27	Water meters, etc., Washington, D. C.	5-11
5-29	Dam, etc., Ottawa, Ont	5- 4
5-29	Watermains, etc., Rouleau, Sask..	5-18
5-31	Water-works, Concord, N. C.	5-13
5-31	Water pipe, Burnaby, Ont	5- 4
5-31	Pipe, Vancouver, B. C	4- 6
5-31	Pipe line, Fort Yellowstone, Wyo.	5-11
5-31*	Water supply, Binghamton, N. Y.	5-18
6- 1*	Wood pipe, Lexington, Va	5-18
6- 1*	Canal enlargement, Boise, Idaho.	3-30
6- 2	Pumps, St. Louis, Mo	5-11
6- 2	Water-works improvements, Mandon, N. Dak	5-18
6- 2	Pump, etc., Fort Morgan, Ala	5-18
6- 4	Sale of pump, plant, Deseronto, Ont	5-18
6- 7	Franchise, Richfield, Cal	5-18
6- 7*	Water-works, etc., Bristol, Pa..	5-18
6- 9*	Intake extension, Marquette, Mich.	5-18
6-15	Pumps, Philippine Islands (U. S. Poss.)	5- 4
6-19*	Dike, Thistle, Utah	5-18
6-20	Engines and pumps, India (Foreign)	4-27

Sewers.

Bids close.		Noted in issue of
5-18	Sewers, Richwood, Ohio	5-18
5-19	Sewers, Akron, Ohio	5-18
5-19	Sewers, Garfield, N. J	5-11
5-19	Sewer pipe, Mt. Gilead, Ohio	5-11
5-20*	Sewers, Adam, Mass	5-11
5-20	Sewer, Pittsburg, Pa	5-18
	(Mfg. Pl.)	5-18
5-22	Sewers, Huron, S. Dak	5-18
5-22	Storm sewer, Fond du Lac, Wis.	5-18
5-22*	Sewer, Syracuse, N. Y	5-18
5-22	Sewage disposal plant, Birmingham, Ala	5-18
5-22	Storm sewer extension, Moose Jaw, Sask	5-18
5-22	Sewer, East Youngstown, Ohio..	4-27
5-23	Sewer, Muskogee, Okla	5- 4
5-23	Sewers, Ionia, Mich	5-18
5-23	Sewer, South Bend, Ind	5-18
5-23	Sewer system, Amherst, Ohio	5-18
5-24	Sewer, Marion, Ohio	5-18
5-24	Sewers, Struthers, Ohio	5-18
5-24	Sewers, Williamsport, Pa	4-27
5-24*	Sewers, Baltimore, Md	5-11
5-24	Sewers, Frederick, Md	5-11
5-24	Sewers, Binghamton, N. Y	5-11
5-24*	Sewers, Dayton, Ohio	5-11
5-25	Sewers, Fargo, N. Dak	5-18
5-25	Sewers, Paris, Mo	5-18
5-25	Sewers, Piqua, Ohio	5-18
5-25	Sewers, Washington, D. C.	5-18
5-31	Sewer, Norristown, Pa	5-18
5-31	Storm water drain, Fort Leavenworth, Kan	5-18
6- 1	Sewers, South Glens Falls, N. Y..	5- 4
6- 2*	Sewers, Bellefontaine, Ohio	5-11
6- 2	Sewer, Ft. Hamilton, N. Y	5-11
6- 3*	Sewer, Englewood, N. J	5-11
6- 5*	Sewage disposal plant, Fort Sheridan, Ill	5-11
6- 5	Sewers, Willoughby, Ohio	5-18
6- 6*	Pump, etc., Toronto, Ont	5-11
6- 6	Sewer construction, Ossining, N. Y.	5-11
6- 7*	Sewers, Bristol, Pa	5-18
6- 8*	Sewer, Grand Rapids, Mich	5-18
6-20	Sewers, Madison, S. Dak	5-18
7- 3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

Bids close.		Noted in issue of
5-19	Paving, Columbus, Ohio	5-11
5-19	Paving, Concord, N. H	5-11
5-19	Macadamizing, etc., Cincinnati, O.	4-27
5-19	Grading, etc., Pierre, S. Dak	5- 4
5-19	Street widening, Troy, N. Y.	5-18
5-19	Sidewalks, Walden, N. Y.	5-18
5-19	Paving, Akron, Ohio	5-18
5-19	Paving, etc., Portsmouth, Ohio..	5-18
5-20	Paving, etc., Pittsburg, Pa	5-18
5-20	Paving, etc., Kingston, Ont	5-18
5-20	Road improvement, Dayton, Ohio.	5-18
5-20	Road construction, Phoenix, Ariz.	5- 4
5-20	Grading, etc., Cleveland, Ohio	5- 4
5-20	Grading, Pelan, Minn	5-11
5-20	Road construction Chatham, N. Y.	5-11
5-22	Regulating, etc., Yonkers, N. Y..	5-11
5-22	Paving, Concord, N. H	5-11
5-22	Paving, New Philadelphia, Ohio..	5- 4
5-22	Paving, New York	5-11
5-22	Grading, East Youngstown, Ohio..	5-18
5-22	Paving, etc., Willington, Kan	5-18
5-22	Concrete walks, Great Falls, Mont.	5-18
5-22	Paving, etc., Galveston, Tex	5-18
5-22	Curb and gutter, Columbus, Miss.	5-18
5-22	Paving, Bethlehem, Pa	5-18
5-23	Paving, etc., New York, N. Y	5-18
5-23	Paving, Memphis, Tenn	5-18
5-23	Walks, etc., Toronto, Ont	5-18
5-23	Regulating, etc., New York	5-11
5-23	Grading, etc., Bowling Green, Ohio	5- 4
5-23	Paving, etc., Auburn, N. Y	5-11
5-23	Paving, Janesville, Wis	5-11
5-24	Paving, etc., Canton, Ohio	5-11
5-24	Paving, etc., Frederick, Md	5-11
5-24	Road construction, Harrisburg, Pa.	5-18
5-24	Paving, etc., New York, N. Y	5-18
5-25	Grading, etc., Philadelphia, Pa..	5-18
5-25	Walks, Burlington, Ont	5-18
5-25	Paving, Dayton, Ohio	5-11
5-25	Paving block, etc., Washington, D. C.	5-11
5-25	Highway improvement, Richmond, Va.	5-11
5-26	Sidewalks, Salt Lake City, Utah.	5-18
5-27	Road improvement, Cleveland, Ohio	5-18
5-27	Grading, etc., Cleveland, Ohio	5-11
5-27	Macadam road, Greencastle, Ind.	5-11
5-29	Paving, etc., Moose Jaw, Sask..	5-18
5-29	Grading, etc., Bellingham, Wash.	5-18
5-29	Macadam, Toledo, Ohio	5-18
5-31*	Paving, etc., Kingston, Pa	5-18
5-31*	Paving, Wilkes-Barre, Pa	5-18
6- 1	Road construction, Georgetown, Tex.	5- 4
6- 2	Trap rock, Concord, N. H	5-18
6- 2	Road improvement, Cincinnati, Ohio	5-18
6- 5*	Paving, Steelton, Pa.	5-18
6- 6	Gravel road, Wabash, Ind	5-11
6- 5	Paving, etc., Willoughby, Ohio..	5-18
6- 5	Paving, Marion, Kan	5-18
6- 6	Macadam roads, Rushville, Ind	5-18
6- 6	Highways, Hazlehurst, Miss	5-18
6- 6	Macadam roads, Logansport, Ind	5-18
6- 6	Gravel roads, Kokomo, Ind	5-18
6- 7	Rock road, Monticello, Ind	5- 4

Miscellaneous.

Bids close.		Noted in issue of
5-18	St. flushing machines, Newark, N. J. (Garbage)	5-18
5-19*	Dredging, Boston, Mass	5-18
5-19	Dredging, Ottawa, Ont	5-18
5-19	Signal system, etc., Passaic, N. J.	5-18
5-19	Dredging, Midland, Ont.	5-18
5-19	Road oil, Pittsburg, Pa.	5-18
5-19	Culvert pipe, Mt. Gilead, Ohio..	4-27
5-19*	Dredging, New London, Conn..	4-27
5-19	Ash, etc., removal (Garbage), New York	5-11
5-30	Railway construction, Hanover, Ind.	5-11
5-19	Granite stone, New York	5-11
5-19	Lumber and piles, New York	5-11
5-20	Ditch work, Everett, Wash	5-11
5-20*	Dredging, New London, Conn	4-27
5-20*	Jetties, etc., Washington, D. C..	4-27
5-20	Roof coverings, Norfolk, Va	4-27
5-20	Ditches, Osceola, Wis	5- 4
5-20	Ditches, Lawrenceville, Ill	5-18
5-22	Revetment, Kansas City, Mo	5- 4
5-22*	Timber bulkhead, Stamford, Conn.	5- 4
5-22	Rock excavation, Nashville, Tenn.	4-27
5-22*	Dredging, Wilmington, Del	4-27
5-22*	Dredging, Jacksonville, Fla	4-27
5-22	Excavating channel, Lincoln, Neb.	5-11
5-22	Incinerator plant (Garbage), Moose Jaw, Sask	5-11
5-22	Wharf, Prince Albert, Sask	5-11
5-23*	Dock, Toronto, Ont	4-27
5-23	Telegraph, etc., material, Australia (Foreign)	4-27
5-23	Broken stone, steel, etc., Washington, D. C	5-18
5-23	Coal bunkers, Chicago, Ill	5-18
5-23	Stable, New York	5-18
5-23	Filling and grading, New York..	5-18
5-23	Storage building, New York	5-18
5-24	Ditches, Roosevelt, Minn	5-18
5-24	Cement, New Orleans, La	5-18
5-24*	Dredging, Milwaukee, Wis	4-27
5-25*	Dredging, etc., Jacksonville, Fla.	4-27
5-25*	Dredging, Galveston, Tex	5- 4
5-25	Garbage, Indianapolis, Ind	5- 4
5-25	Cement, etc., Washington, D. C..	5-11
5-25	Pumping machinery, boilers, Portland, Ore.	5-11
5-25	Wire, Los Angeles, Cal	5-18
5-25	Metal partitions, New York	5-18
5-25	Posts and boxes, New York	5-18
5-25	Steel freight shed, New York	5-18
5-25	Chapel, Coldwater, Mich	5-18
5-25*	Street sweeper, Rockford, Ill	5-18
5-26	Fire alarm system, New York..	5-18
5-26	Fire hose, New York	5-18
5-26	Balconies, New York	5-18
5-26*	Dredging, New York	5-18
5-26	Dredging, Boston, Mass	5-11
5-26	Repairing jetties, Boston, Mass..	5-11
5-26	Fire alarm system, Syracuse, N. Y.	5-11
5-26*	Lock and dam, Cincinnati, Ohio..	4-27
5-26	Cottages, McDowell, Ariz	4-27
5-26	Steel and rivets, Los Angeles, Cal.	4-27
5-27	Pumping equip., Norfolk, Va	4-27
5-27	Wharf, trestle, etc., Alaska	4-13
5-27*	Bulkhead, Mobile, Ala	5- 4
5-29*	Dredging, Chicago, Ill	5-11
5-29	Roofing work, New York	5-18
5-29	Fire escapes, White Plains, N. Y.	5-11
5-29	Sanitary and locker building, Boston, Mass	5-18
5-29	Motor ferry, Mission, B. C.	5-18
5-30	Railway construction (Elec. Rys.), Hanover, Ind.	5-11
5-30	Canal, Algoo, Tex	5-11
5-30	Franchise, Turlock, Cal., (Elec. Ry.)	4-20
5-30	Railway construction, Scottsburg, Ind. (Elec. Rys.)	4-20
5-31*	Cement, Montgomery, Ala	5- 4
5-31*	Dikes, Savannah, Ga	5- 4
5-31	Cottages, etc., Tekoa, Wash	5- 4
5-31	Lumber, etc., Panama (U. S. Poss.)	5-11
5-31	Wire fence, Brandon, Man	5-18
5-31	Wharf, Ottawa, Ont	5-18
6- 1	Dredging, Cleveland, Ohio	5-11
6- 1	Breakwaters, Cleveland, Ohio	5-11
6- 1*	Dredging, Norfolk, Va	5- 4
6- 1*	Breakwater, Portland, Me	5- 4
6- 1	Canal, Wilmot, Ark	4-13
6- 3	Floating cranes, Washington, D.C.	4- 6
6- 3	Locomotive, Portsmouth, N. H..	4-27
6- 3	Extension of dikes, Vallejo, Cal.	5- 4
6- 3	Fabricated steel struc. material, Hawaii (U. S. Poss.)	5-11
6- 3	Dredging, Jacksonville, Fla	5-18
6- 3	Levees, etc., Santa Ana, Cal	5-18
6- 5*	Lock and dam, Wheeling, W. Va.	5-11
6- 6	Franchise (electric railway), Fowler, Cal.	5-11
6- 6*	Dredge, Nashville, Tenn	5-11
6- 6*	Drainage canals, levees, etc., New Orleans, La.	5- 4
6- 6	Towboat, Vicksburg, Miss	4-27
6- 6	Franchise (Electric Railway), Chico, Cal.	5-11
6- 6*	Dredging, Detroit, Mich	5-18
6- 6	Rock, New Orleans, La	5-18
6- 7	Wireless Telegraph Inspector, Washington, D. C	5-18
6- 7	Cable, Australia (Foreign)	4-27
6- 7*	Dredge hull, scows, Washington, D. C.	5-11
6- 8	Repairs of Dams, Rock Island, Ill	5-18
6- 9*	Breakwater, Newport, R. I.	5-18
6-12	Cottage, Fort Simcoe, Wash	5-18
6-12	Wharf, Montebello, Que	5-18
6-12	Wharf, etc., Beaumoris, Ont	5-18
6-15	Fire engine, Washington, D. C..	5-11
6-16*	Dredging, Savannah, Ga	5-18
6-20	Hose, Washington, D. C	5-11
6-20	Colliers and tugs, Wash., D. C..	4-27
6-29*	Lock masonry, Detroit, Mich	5-11
7- 3	Police patrol telegraph system, Winnipeg, Man.	5-11
7-22*	Harbor work, Chile (Foreign)	4-27
7-22	Port work, Chile......(Foreign)	4- 6
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
5-24	Highway engineer, Washington, D. C.	4-20
5-24	Topographic Draftsman and Copyist, Topographical Draftsman, Washington, D. C	4-20
5-24	Prepator, Washington, D. C	4-20
5-24	Drainage Engineer, Wash., D. C..	4-20
5-25	Forest Pathologist, Wash., D. C.	4-20
	Forest Products, Wash. D. C	4-20
5-27	Modeler, Washington, D. C	5-11
6- 3	Oiler, Washington, D. C	5-11
6-14	Asst. Elec. Engr., New York	5-11
6-19	Mechanical Engineer, New York.	5-11
6-21	Bacteriological Chemist, Wash., D. C.	5-18

KEROSENE HEATING TORCHES.—Hauck Mfg. Co., Richard St. and Hamilton Ave., Brooklyn, N. Y. Bulletin 31. Leaflet; 3 × 6 ins.; illustrated.

This small leaflet describes a torch suitable for general shop work quite similar to the familiar gasoline torches, but burning kerosene. It is claimed that a more intense flame and absolute safety have been secured.

AIR COMPRESSORS.—Thos. H. Dallett Co., Philadelphia, Pa. Paper; 6 × 9 ins.; illustrated. Bulletins 200, 201 and 202.

The first of these leaflets describes the general construction details adopted by this company in its line of compressors. The second leaflet describes the straight-line, belt-driven type, and the third bulletin shows a straight-line, steam-driven type.

TRACTION ENGINES.—Holt Mfg. Co., Stockton, Cal. Bulletin TE-40. Paper; 8 x 11 ins.; pp. 72; illustrated.

In an attractive booklet, the Holt company has described its caterpillar type of traction engines as made for various classes of service, such as for plowing or for freight haulage over difficult trails. Several of these caterpillar engines are used on the Los Angeles Aqueduct construction, and their use is pictured here.

HOISTS.—Yale & Towne Mfg. Co., New York City. Paper; 3½ × 6½ ins.; pp. 23; illustrated.

This company's well-known line of chain blocks and electric hoists is very briefly described, with a few words on the construction. This line includes duplex and differential blocks for fixed hand hoisting and various hand and electric hoists for trolley service.

COAL WASHING JIGS.—Foust Concentration Co., 332 South Michigan Ave., Chicago, Ill. Paper; 4 × 9 ins.; pp. 12; illustrated.

The Foust jig for coal washing, as here described, is the same in principle and operation as the jigs used for ore concentration. It is intended for use in removing physical impurities from the lower grades of coal, and is made in units of 300 tons per day capacity and upwards.

GAS ENGINES.—Foos Gas Engine Co., Springfield, Ohio. Catalog 23. Paper; 8½ × 10½ ins.; pp. 48; illustrated.

This new catalog shows a line of horizontal engines of 3 to 90 HP., single cylinder. Among the new apparatus shown is an oil engine designed for operation on certain grades of heavy liquid fuels. An interesting illustration is the reproduction of an unretouched photograph of a portable engine running at 300 r.p.m. mounted on polished rollers.

STEAM TURBINES.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1079. Paper; 8 × 10½ ins.; pp. 32; illustrated.

This bulletin describes the steam-turbine generating units designed by this company. The general and detail features of the design are well set forth with adequate illustrations, and there is matter on the equipment for lubrication, governing, adjustment, etc. The electrical features of the generator itself are very briefly passed over.

ROAD OILER.—Walter S. French & Co., Moorestown, N. J. Paper; 3½ × 6 ins.; pp. 20; illustrated.

The so-called 20th Century Road Oiler is described in this leaflet. It consists of a tank wagon, attached to the rear of which is a small engine-driven pump for forcing the oil out onto and into the surface of the road at high pressures. The book is profusely illustrated with photographs of streets, where it has been used. There are many testimonials from users.

GASOLINE HOIST FOR SHAFTS AND MINES.—Seager Engine Works, Lansing, Mich. Paper; 6¾ × 10 ins.; pp, 12; illustrated.

The Olds hoist has a multi-cylinder, four-cycle gasoline engine of the automobile type. This drives by gearing the large rope drum, which drum is fitted with two band brakes lined with wood-bearing blocks. The hoist, with four-cylinder 40-HP. engine and 42-in. drum, can hoist 1,000 lbs. at 600 ft. per min., 400 lbs. at 400 ft. and 180 lbs. at 4,000 ft. The engine gears and drum are all mounted on the same bed plate.

ROAD OIL.—Texas Co., Houston, Tex. Miscellaneous Bulletins. Paper; illustrated.

In an attractive booklet the so-called "Texaco" road oil and "Texaco" macadam bonder for treating and building broken-stone roads are described. There are photographs showing the cold surface application of road oil, the hot application of oil, the penetration and cold mixing methods of preparing the top layers of macadam with heavy binder.

Another booklet entitled "The Proof of the Pudding" is devoted to setting forth the merits of this company's paving cement for various "permanent" roadways.

The company has also started a house organ entitled "Paving and Roads," in which from time to time they describe various phases of road construction where their products have been used.

ELECTRIC MOTORS AND GENERATORS.—Crocker-Wheeler Co., Ampere, N. J. Bulletins 126, 128, 129, 130 and 132. Paper; 7½ × 10 ins.; illustrated.

Bulletins 126, 128, 129 and 132 describe a portion of the line of motors put out by this company, while the remaining bulletin devotes its small space to a description of a small engine-driven set of 1.75 to 21 KW. The first-mentioned bulletin describes the mechanical and electrical construction of polyphase induction motors to run at constant speed in sizes of ⅛ to 250 HP. Several pages of photographs are appended to show the application of these motors. In the other bulletins, motors for rolling mills, for direct-current crane and hoist service, and for general shop use, respectively, are described.

For other Proposal Advertisements see pages
73, 74, 76, 80
of Advertisements and Construction News, page 264

WATER SUPPLY, ETC.

Binghamton, N. Y.

Sealed proposals for changing refrigerating plant; additional water supply (water filtration plant); and fire escapes for nurses' home at Binghamton State Hospital, Binghamton, N. Y., will be received by the State Commission in Lunacy, 53 Lancaster St., Albany, N. Y., until three o'clock P. M., Wednesday, May 31st, 1911, when they will be opened and read publicly.

Proposals shall be accompanied by certified checks as follows: for changing the refrigerating plant, $250; for additional water supply, $750; for fire escapes, five per cent. of the amount of bid; and the contractors to whom the awards are made will be required to furnish surety company bonds as follows: Changing refrigerating plant, $2,500; additional water supply, $7,500; fire escapes, 50 per cent. of the amount of contract, within 30 days after notice of award of contract and in accordance with the terms of specifications Nos. 1428, 1434 and 1435A. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Binghamton State Hospital, Binghamton, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

T. E. McGARR,
Secretary State Commission in Lunacy,
Albany, N. Y.
May 15, 1911.

PAVING.

BY JOINT ACTION OF THE BOROUGHS OF EDWARDSVILLE AND KINGSTON, PA.

Sealed proposals will be received by W. J. Williams, Secretary of Kingston Borough, Luzerne County, Pa., until 12 o'clock M., May 31st, 1911, for paving, curbing and grading Division Street, paving approximately 6,000 square yards, and furnishing and setting approximately 3,500 lineal feet of curbing. Each bid must be accompanied by a certified check for 5% of the total amount of the bid, drawn payable to E. M. Rosser, Treasurer.

Plans, specifications, instructions to bidders and forms of proposals may be seen and examined at the office of the Borough Engineers, Young & Wintermute, 414 Second National Bank Bldg., Wilkes-Barre, Pa., or at Smith & Wells, 1003 Coal Exchange Bldg., Wilkes-Barre, Pa.

The right to reject any or all bids, especially reserved.

W. J. WILLIAMS,
Borough Secretary.

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., May 18, 1911.—Sealed proposals for dredging Black River at Port Huron, Mich., will be received at this office until June 6, 1911, and then publicly opened. Information on application. C. McD. TOWNSEND, Col., Engineers.

PAVING.

Steelton, Pa.

Sealed proposal will be received by the Town Council of the Borough of Steelton, Pennsylvania, at the Council Chamber until 7.30 p. m., Monday, June 5, 1911, to be opened at a regular meeting of the Town Council to be held at the said time and place for sub-grading, paving and curbing of Second Street, from Adams Street to Chestnut Street.

Plans and specifications, form of proposal and form of contract can be had from the Borough Secretary upon the payment of $10.00, which will be refunded upon the return of the plans and specifications in good condition.

No proposal will be considered unless accompanied by a certified check made payable to Leroy H. Sutton, Borough Treasurer, in the sum of $500.00, conditioned on the entering into by the successful bidder of a contract in accordance with the specifications and form provided.

The Town Council reserves the right to reject any or all bids.

Foreign corporations desiring to make bids should be registered in the office of the Secretary of the Commonwealth as required by the act of April 22, 1874, and have a bona fide resident agent in this State with a fixed office, and as a further protection to the Borough of Steelton the successful bidder, if a foreign corporation may, at the option of the Town Council, be required to empower some person or company satisfactory to the Town Council to accept service for such successful bidders during the term of the contract and bond.

CHARLES D. FEIDT,
Borough Secretary.

OUTLET SEWER PIPES.

OFFICE OF THE BRONX VALLEY SEWER COMMISSION, NO. 2 GRAND STREET, WHITE PLAINS, NEW YORK.

May 15, 1911.

AUTHORITY being given by and pursuant to the provisions of Chapter six hundred and forty-six of the Laws of nineteen hundred and five, as amended by Chapter seven hundred and forty-seven of the Laws of nineteen hundred and seven and Chapter ninety-six of the Laws of nineteen hundred and nine.

SEALED BIDS, in opaque envelopes, addressed to the Chairman of the Bronx Valley Sewer Commission and accompanied by a certified check for at least five per cent. of the total amount of the bid submitted, will be received up to June 1, 1911, at 1.30 P. M., for furnishing all the work and materials necessary, excepting the forty-eight inch cast iron pipes which will be furnished by the commission on shore near the side of the work, for the

CONSTRUCTION and laying in a water tight manner of three hundred and twenty-two feet of forty-eight inch cast iron pipe from the end of the sewer as now laid extending out in the bed of the Hudson River in a double line one hundred and sixty-one feet. All in compliance with the details and conditions set forth in the

PLANS and SPECIFICATIONS, which may be seen at the office of the Commission. Form for bids and form of contract and form of bond or security may be obtained from the Secretary of the Commission upon the payment of one dollar, to be repaid when these same said forms are properly used in bidding.

F. N. GLOVER, Secretary.
WILLIAM ARCHER,
JOHN E. ANDRUS,
JOHN J. BROWN,
Commissioners.

U. S. ENGINEER OFFICE, Savannah, Ga., May 17, 1911.—Sealed proposals for dredging in Harbor at Savannah, Ga., will be received at this office until 12, Noon (Eastern Standard Time), June 16, 1911, and then publicly opened. Information on application. DAN C. KINGMAN, Colonel, Engineers.

CONCRETE RESERVOIR.

Geneva, N. Y.

Sealed proposals will be received by the Board of Public Works of the City of Geneva, N. Y., until 7.30 P. M., June 8th, 1911, for constructing a two million gallons capacity concrete covered reservoir.

Details of same may be had upon application to the Board.

C. T. CHURCH,
Superintendent.

PAVING AND SEWERS.

Kingston, Pa.

Sealed proposals will be received by W. J. Williams, Secretary of the Borough of Kingston, Luzerne County, Pa., until 12 o'clock M., May 31st, 1911, for paving approximately 10,000 square yards of brick paving upon a concrete foundation, and for approximately 3,000 square yards of Amiesite, Warrenite, or Similar Paving, and for furnishing and setting approximately 8,700 lineal feet of curbing. Each bid must be accompanied by a certified check for 5% of the total amount of the bid, drawn payable to E. M. Rosser, Treasurer.

At the same time and place sealed proposals will be received for constructing approximately 3,000 lineal feet of sewers (8" to 20"), together with the necessary inlets, manholes, and lamp holes. Each bid must be accompanied by a certified check for 5% of the total amount of the bid, drawn payable to E. M. Rosser, Treasurer.

Plans, specifications, instructions to bidders and forms of proposals may be seen and examined at the office of the Borough Engineers, Young & Wintermute, 414 Second National Bank Bldg., Wilkes-Barre, Pa., or copies will be sent upon the receipt of $5.00, such amount to be returned upon the return of the plans, etc.

The right to reject any or all bids, or any portion of any bid, or to accept any portion of any bid, which may be deemed for the best interest of the Borough, is especially reserved.

W. J. WILLIAMS,
Borough Secretary.

PIPE, VALVES, ETC.

Lexington, Va.

Sealed proposals will be received by the Town of Lexington, Virginia, until 12.00 o'clock (noon), June 1st, 1911, for furnishing 41,800 feet wood pipe and 16,800 feet of eight-inch cast-iron pipe valves and special castings, also at the same time and place for the work of building a small concrete intake and pipe laying, according to specifications on file in Lexington, Virginia. A certified check for $250.00 must accompany each formal proposal. The Town reserves the right to reject any and all bids.

For synopsis of specifications and bidders blank, address

N. WILSON DAVIS, Engineer.
Harrisonburg, Va.

Situations Open

(Or Vacant)

WANTED—Several first-class structural draftsmen. THE HINKLE IRON WORKS, 534 West 56th St., New York. 20-1t

---

A PROMINENT steel contracting firm in New York City desires the services of a first-class ornamental draftsman. Must have large experience and be able to work independent and direct shop force. An excellent opportunity and permanent position for the right man. Highest salary paid. Only men with highest references need apply. All applications will be treated strictly confidential. Address "D. B. 20," Engineering News, New York. 20-1t

---

WANTED—Steam shovel engineer. Engineer for a Thew steam shovel. Type No. 0. Must have good recommendations. Address "C. B. 20," Engineering News, New York. 20-2t

---

ONE or two draftsmen familiar with details manganese center frog and switch work. Prefer men with about one or two years' experience with manufacturer. Location near Chicago. State age, salary and how soon could report. Exceptional chance for advancement. Address "V. 20," Engineering News, 1636 Monadnock Block, Chicago. 20-1t

Miscellaneous Wants

WANTED.

We are in the market for a quantity of second-hand 15" Friestead

Interlocking

Steel Sheet Piling

length from 35' to 45'; must be in good condition. What have you? Give full particulars and price. Address the C. H. F. & S. CONSTRUCTION CO., Cherry St. Bridge, Toledo, Ohio. 20-2t